HK362

HUMAN gC1qR

ELISA KIT

PRODUCT INFORMATION & MANUAL

Read carefully prior to starting procedures!

ATTENTION
For use in laboratory research only
Not for clinical or diagnostic use
Note that this user protocol is not lot-specific and is representative for the current specifications of this product. Please consult the vial label and the Certificate of Analysis for information on specific lots. Also note that shipping conditions may differ from storage conditions.

For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.
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1. INTENDED USE

The human gC1qR ELISA kit is to be used for the in vitro quantitative determination of human gC1qR in plasma samples and cell culture supernatant. This kit is intended for laboratory research use only and is not for use in diagnostic or therapeutic procedures. The analysis should be performed by trained laboratory professionals.

2. INTRODUCTION

gC1qR is present in plasma and the extracellular matrix. The molecule is an unusually acidic, single chain protein with an apparent molecular weight of 33 kDa. It does not possess a conventional sequence motif compatible with a membrane spanning segment nor a consensus site for a GPI anchor. gC1qR migrates as a single chain under both reducing and non-reducing conditions, but it behaves as an oligomer on gel-filtration in non-dissociating conditions. Its multimer formation may be a critical process by which the gC1qR molecule increases its affinity for multivalent ligands such as C1q. gC1qR has been shown to inhibit complement activation by preventing the binding of C1q to antibodies, suggesting that the binding site for gC1qR and the binding site for immune complexes, which are present on the C1q globular 'heads', may be located at the same position. gC1qR is capable of interacting with several proteins involved in blood clotting, namely, thrombin, prothrombin, the heparin binding form of vitronectin, the ternary complex, vitronectin-thrombin-antithrombin, as well as high-molecular-weight kininogen and Hageman factor. Besides its role in the complement pathway, gC1qR participates in enhancement of Fc-receptor and CR1-mediated phagocytosis, procoagulant activity on platelets, and chemotactic activity on mast cells, eosinophils, neutrophils, and fibroblasts. gC1qR is expressed on a wide variety of cells and can serve as a binding site for plasma and microbial proteins. Its antigenic sites may be cryptic on cells in suspension but become exposed when the cells are activated or fixed by bifunctional cross-linkers. Probably it is also expressed on the cell membrane as a trimer. Crosslinking or activation may thus bring about a trimeric assembly of gC1qR followed by a conformational change within the molecule, thereby exposing epitopes which are otherwise hidden. A form of gC1qR is also found inside the cell. Intracellular gC1qR has been shown to bind the cytoplasmic tail of the α1B-adrenergic receptor and to PKCμ.

3. KIT FEATURES

- Working time of 3½ hours.
- Minimum concentration which can be measured is 0.3 ng/ml.
- Measurable concentration range of 0.3 to 20 ng/ml.
- Working volume of 100 µl/well.

Cross-reactivity

Cross reactivity for other species or proteins/peptides has not been tested.

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Email: customerservice@lifetechindia.com, www.atzlabs.com ; www.lifetechindia.com
### 4. PROTOCOL OVERVIEW

- The human gC1qR ELISA is a ready-to-use solid-phase enzyme-linked immunosorbent assay based on the sandwich principle with a working time of 3½ hours.
- The efficient format of a plate with twelve disposable 8-well strips allows free choice of batch size for the assay.
- Samples and standards are incubated in microtiter wells coated with antibodies recognizing human gC1qR.
- Biotinylated tracer antibody will bind to the captured human gC1qR.
- Streptavidin-peroxidase conjugate will bind to the biotinylated tracer antibody.
- Streptavidin-peroxidase conjugate will react with the substrate, tetramethylbenzidine (TMB).
- The enzyme reaction is stopped by the addition of oxalic acid.
- The absorbance at 450 nm is measured with a spectrophotometer. A standard curve is obtained by plotting the absorbance (linear) versus the corresponding concentrations of the human gC1qR standards (log).
- The human gC1qR concentration of samples, which are run concurrently with the standards, can be determined from the standard curve.

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5. Kit Components and Storage Instructions

<table>
<thead>
<tr>
<th>Kit Component</th>
<th>Cat. #</th>
<th>Quantity HK362-01</th>
<th>Quantity HK362-02</th>
<th>Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash buffer 20x</td>
<td>WB21</td>
<td>1 vial (60 ml)</td>
<td>1 vial (60 ml)</td>
<td>Colorless</td>
</tr>
<tr>
<td>Dilution buffer 10x</td>
<td>DB81</td>
<td>1 vial (15 ml)</td>
<td>1 vial (15 ml)</td>
<td>Green</td>
</tr>
<tr>
<td>Standard</td>
<td></td>
<td>2 vials, lyophilized</td>
<td>4 vials, lyophilized</td>
<td>White</td>
</tr>
<tr>
<td>Tracer, biotinylated</td>
<td></td>
<td>1 vial, 1 ml lyophilized</td>
<td>2 vials, 1 ml lyophilized</td>
<td>White</td>
</tr>
<tr>
<td>Streptavidin-peroxidase 100x</td>
<td>CON04</td>
<td>1 tube, 0.25 ml in solution</td>
<td>1 tube, 0.25 ml in solution</td>
<td>Brown</td>
</tr>
<tr>
<td>TMB substrate</td>
<td>TMB050/TMB100</td>
<td>1 vial (11 ml)</td>
<td>1 vial (22 ml)</td>
<td>Brown</td>
</tr>
<tr>
<td>Stop solution</td>
<td>STOP110</td>
<td>1 vial (22 ml)</td>
<td>1 vial (22 ml)</td>
<td>Red</td>
</tr>
<tr>
<td>12 Microtiter strips, pre-coated</td>
<td></td>
<td>1 plate</td>
<td>2 plates</td>
<td></td>
</tr>
<tr>
<td>Certificate of Analysis</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Manual</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Data collection sheet</td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Table 1

- Upon receipt, store individual components at 2 - 8°C. Do not freeze.
- Do not use components beyond the expiration date printed on the kit label.
- The standard and tracer in lyophilized form and the streptavidin-peroxidase in concentrated solution are stable until the expiration date indicated on the kit label, if stored at 2 - 8°C.
- The exact amount of the standard is indicated on the label of the vial and the Certificate of Analysis.
- The standard is single use. After reconstitution the standard cannot be stored.
- Once reconstituted the tracer is stable for 1 month if stored at 2 - 8°C.
- The streptavidin-peroxidase can only be stored in concentrated solution and is not stable when stored diluted.
- Upon receipt, foil pouch around the plate should be vacuum-sealed and unpunctured. Any irregularities to aforementioned conditions may influence plate performance in the assay.
- Return unused strips immediately to the foil pouch containing the desiccant pack and reseal along the entire edge of the zip-seal. Quality guaranteed for 1 month if stored at 2 - 8°C.

Materials required but not provided

- Calibrated micropipettes and disposable tips.
- Distilled or de-ionized water.
- Plate washer: automatic or manual.
- Polypropylene tubes.
- Calibrated ELISA plate reader capable of measuring absorbance at 450 nm.
- Adhesive covers can be ordered separately. Please contact your local distributor.
- Centrifuge for 1 ml tubes.
6. WARNINGS AND PRECAUTIONS

- For research use only, not for diagnostic or therapeutic use.
- This kit should only be used by qualified laboratory staff.
- Do not under any circumstances add sodium azide as preservative to any of the components.
- Do not use kit components beyond the expiration date.
- Do not mix reagents from different kits and lots. The reagents have been standardized as a unit for a given lot. Use only the reagents supplied by manufacturer.
- The assay has been optimized for the indicated standard range. Do not change the standard range.
- Open vials carefully: vials are under vacuum.
- It is advised to spin down streptavidin-peroxidase tubes before use.
- Do not ingest any of the kit components.
- Kit reagents contain 2-chloroacetamide as a preservative. 2-Chloroacetamide is harmful in contact with skin and toxic if swallowed. In case of accident or if you feel unwell, seek medical advice immediately.
- The TMB substrate is light sensitive, keep away from bright light. The solution should be colorless until use.
- The stop solution contains 2% oxalic acid and can cause irritation or burns to respiratory system, skin and eyes. Direct contact with skin and eyes should be strictly avoided. If contact occurs, rinse immediately with plenty of water and seek medical advice.
- Incubation times, incubation temperature and pipetting volumes other than those specified may give erroneous results.
- Do not reuse microwells or pour reagents back into their bottles once dispensed.
- Handle all biological samples as potentially hazardous and capable of transmitting diseases.
- Hemolyzed, hyperlipemic, heat-treated or contaminated samples may give erroneous results.
- Use polypropylene tubes for preparation of standard and samples. Do not use polystyrene tubes or sample plates.
- The standard is of human origin. It was tested for various viruses and found negative. Since no test method can offer complete assurance that infectious agents are absent, this reagent should be handled as any potentially infectious human serum or blood specimen. Handle all materials in contact with this reagent according to guidelines for prevention of transmission of blood-borne infections.
7. SAMPLE PREPARATION

Collection and handling

Plasma
It is advised to use ‘careful plasma’, which can be obtained as follows.
Keep freshly collected blood on ice. Within 20 minutes after blood sampling, separate plasma by centrifugation (1500xg at 4°C for 15 min). Remove plasma and transfer to fresh polypropylene tube. EDTA plasma samples are preferred.

Storage
Store samples below -20°C, preferably at -70°C in polypropylene tubes. Use samples within 24 hours after thawing and keep them on ice. Avoid multiple freeze-thaw cycles. Do not use hemolyzed, hyperlipemic, heat-treated or contaminated samples.
Before performing the assay, samples should be brought to room temperature (18 – 25°C) and mixed gently. Prepare all samples (controls and test samples) prior to starting the assay procedure. Avoid foaming.

Dilution procedures

Plasma samples
Human gC1qR can be measured accurately if plasma samples are diluted at least 2x with supplied dilution buffer in polypropylene tubes.

Remark regarding recommended sample dilution
The mentioned dilution for samples is a minimum dilution and should be used as a guideline. The recovery of human gC1qR from an undiluted sample is not 100% and may vary from sample to sample. When testing less diluted samples it is advisable to run recovery experiments to determine the influence of the matrix on the detection of human gC1qR.
Do not use polystyrene tubes or sample plates for preparation or dilution of the samples.

Guideline for dilution of samples
Please see table 2 for recommended for sample dilutions. Volumes are based on a total volume of at least 230 µl of diluted sample, which is sufficient for one sample in duplicate in the ELISA. For dilution of samples we recommend to use at least 10 µl of sample.

<table>
<thead>
<tr>
<th>Dilution</th>
<th>Pre-dilution</th>
<th>Amount of sample or pre-dilution required</th>
<th>Amount of dilution buffer required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 10x</td>
<td>Not necessary</td>
<td>25 µl (sample)</td>
<td>225 µl</td>
</tr>
<tr>
<td>2. 20x</td>
<td>Not necessary</td>
<td>15 µl (sample)</td>
<td>285 µl</td>
</tr>
<tr>
<td>3. 50x</td>
<td>Not necessary</td>
<td>10 µl (sample)</td>
<td>490 µl</td>
</tr>
<tr>
<td>4. 100x</td>
<td>Not necessary</td>
<td>10 µl (sample)</td>
<td>990 µl</td>
</tr>
<tr>
<td>5. 500x</td>
<td>Recommended: 10x (see nr.1)</td>
<td>10 µl (pre-dilution)</td>
<td>490 µl</td>
</tr>
<tr>
<td>6. 1000x</td>
<td>Recommended: 10x (see nr.1)</td>
<td>10 µl (pre-dilution)</td>
<td>990 µl</td>
</tr>
<tr>
<td>7. 2000x</td>
<td>Recommended: 20x (see nr.2)</td>
<td>10 µl (pre-dilution)</td>
<td>990 µl</td>
</tr>
<tr>
<td>8. 5000x</td>
<td>Recommended: 50x (see nr.3)</td>
<td>10 µl (pre-dilution)</td>
<td>990 µl</td>
</tr>
</tbody>
</table>

Table 2
8. REAGENT PREPARATION

Allow all the reagents to equilibrate to room temperature (18 – 25°C) prior to use. Return to proper storage conditions immediately after use.

Wash buffer
Prepare wash buffer by mixing 60 ml of 20x wash buffer with 1140 ml of distilled or de-ionized water, which is sufficient for 2 x 96 tests. In case less volume is required, prepare the desired volume of wash buffer by diluting 1 part of the 20x wash buffer with 19 parts of distilled or de-ionized water.

Dilution buffer
Prepare dilution buffer by mixing 15 ml of the 10x dilution buffer with 135 ml of distilled or de-ionized water, which is sufficient for 2 x 96 tests. In case less volume is required, prepare the desired volume of dilution buffer by diluting 1 part of the 10x dilution buffer with 9 parts of distilled or de-ionized water. Concentrated dilution buffer may contain crystals. In case the crystals do not disappear at room temperature within 1 hour, concentrated dilution buffer can be warmed up to 37°C. Do not shake the solution.

Standard solution
The standard is reconstituted by pipetting the amount of dilution buffer mentioned on the CoA in the standard vial. Use the standard vial as Tube 1 in Figure 1. Prepare each human gC1qR standard in polypropylene tubes by serial dilution of the reconstituted standard with dilution buffer as shown in Figure 1*. After reconstitution the standard cannot be stored for repeated use.

Tracer solution
The tracer is reconstituted by pipetting 1 ml distilled or de-ionized water. Dilute the reconstituted 1 ml tracer with 11 ml dilution buffer, which is sufficient for 1 x 96 tests. In case less volume is required, prepare the desired volume of tracer by diluting 1 part of the reconstituted tracer with 11 parts of dilution buffer.

Streptavidin-peroxidase solution
It is advised to spin down streptavidin-peroxidase tubes before use. Prepare the streptavidin-peroxidase solution by mixing 0.25 ml of the 100x streptavidin-peroxidase solution with 24.75 ml dilution buffer.

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Email: customerservice@lifetechindia.com, www.atzlabs.com ; www.lifetechindia.com
9. **ELISA PROTOCOL**

Bring all reagents to room temperature (18 - 25°C) before use.

1. Determine the number of test wells required, put the necessary microwell strips into the supplied frame, and fill out the data collection sheet. Return the unused strips to the storage bag with desiccant, seal and store at 2 - 8°C.

2. Transfer 100 μl in duplicate of standard, samples, or controls into appropriate wells. Do not touch the side or bottom of the wells.

3. Cover the tray. Tap the tray to eliminate any air bubbles. Be careful not to splash liquid onto the cover.

4. Incubate the strips or plate for 1 hour at room temperature.

5. Wash the plates 4 times with wash buffer using a plate washer or as follows*:
   a. Carefully remove the cover, avoid splashing.
   b. Empty the plate by inverting plate and shaking contents out over the sink, keep inverted and tap dry on a thick layer of tissues.
   c. Add 200 μl of wash buffer to each well, wait 20 seconds, empty the plate as described in 5b.
   d. Repeat the washing procedure 5b/5c three times.
   e. Empty the plate and gently tap on thick layer of tissues.

6. Add 100 μl of diluted tracer to each well using the same pipetting order as applied in step 2. Do not touch the side or bottom of the wells.

7. Cover the tray and incubate the tray for 1 hour at room temperature.

8. Repeat the wash procedure described in step 5.

9. Add 100 μl of diluted streptavidin-peroxidase to each well, using the same pipetting order as applied in step 2. Do not touch the side or bottom of the wells.

10. Cover the tray and incubate the tray for 1 hour at room temperature.

11. Repeat the wash procedure described in step 5.

12. Add 100 μl of TMB substrate to each well, using the same pipetting order as applied in step 2. Do not touch the side or bottom of the wells.

13. Cover the tray and incubate the tray for 30 minutes at room temperature. It is advised to control the reaction on the plate regularly. In case of strong development the TMB reaction can be stopped sooner. Avoid exposing the microwell strips to direct sunlight. Covering the plate with aluminium foil is recommended.

14. Stop the reaction by adding 100 μl of stop solution with the same sequence and timing as used in step 12. Mix solutions in the wells thoroughly by gently swirling the plate. Gently tap the tray to eliminate any air bubbles trapped in the wells.

15. Read the plate within 30 minutes after addition of stop solution at 450 nm using a plate reader, following the instructions provided by the instrument’s manufacturer.

*) In case plate washer is used, please note: use of a plate washer can result in higher background and decrease in sensitivity. We advise validation of the plate washer with the manual procedure. Make sure the plate washer is used as specified for the manual method.
10. INTERPRETATION OF RESULTS

- Calculate the mean absorbance for each set of duplicate standards, control and samples.
- If individual absorbance values differ by more than 15% from the corresponding mean value, the result is considered suspect and the sample should be retested.
- The mean absorbance of the zero standard should be less than 0.3.
- Create a standard curve using computer software capable of generating a good curve fit. The mean absorbance for each standard concentration is plotted on the vertical (Y) axis versus the corresponding concentration on the horizontal (X) axis (logarithmic scale).
- If samples have been diluted, the concentration read from the standard curve must be multiplied by the dilution factor.
- Samples that give a mean absorbance above the absorbance for the highest standard concentration are out of range of the assay. These samples should be retested at a higher dilution.

11. TECHNICAL HINTS

- User should be trained and familiar with ELISA assays and test procedure.
- If you are not familiar with the ELISA technique it is recommended to perform a pilot assay prior to evaluation of your samples. Perform the assay with a standard curve only following the instructions.
- Improper or insufficient washing at any stage of the procedure will result in either false positive or false negative results. Completely empty wells before dispensing wash buffer, fill with wash buffer as indicated for each cycle and do not allow wells to sit uncovered or dry for extended periods.
- Since exact conditions may vary from assay to assay, a standard curve must be established for every run. Samples should be referred to the standard curve prepared on the same plate.
- Do not mix reagents from different batches, or other reagents and strips. Remainders should not be mixed with contents of freshly opened vials.
- Each time the kit is used, fresh dilutions of standard, sample, tracer, streptavidin-peroxidase and buffers should be made.
- Caps and vials are not interchangeable. Caps should be replaced on the corresponding vials.
- To avoid cross-contaminations, change pipette tips between reagent additions of each standard, between sample additions, and between reagent additions. Also, use separate reservoirs for each reagent.
- The waste disposal should be performed according to your laboratory regulations.

Technical support
Do not hesitate to contact our technical support team at support@hycultbiotech.com for inquiries and technical support regarding the human gC1qR ELISA.
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12. QUALITY CONTROL

The Certificate of Analysis included in this kit is lot specific and is to be used to verify results obtained by your laboratory. The absorption values provided on the Certificate of Analysis are to be used as a guideline only. The results obtained by your laboratory may differ.

This assay is designed to eliminate interference by soluble receptors, binding proteins, and other factors present in biological samples. Until all factors have been tested in the Hycult Biotech immunoassay, the possibility of interference cannot be excluded.

For optimal performance of this kit, it is advised to work according to good laboratory practice.

13. TROUBLESHOOTING

Warranty claims and complaints in respect of deficiencies must be logged before expiry date of the product. A written complaint containing lot number of the product and experimental data should sent to support@hycultbiotech.com.

Suggestions summarized below in Table 4 can be used as a guideline in the case of unexpected assay results.

<table>
<thead>
<tr>
<th>Low absorbance</th>
<th>High absorbance</th>
<th>Poor duplicates</th>
<th>All wells positive</th>
<th>All wells negative</th>
<th>Possible cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>Kit materials or reagents are contaminated or expired</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td>Incorrect reagents used</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td>•</td>
<td>Lyophilized reagents are not properly reconstituted</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>Improper dilutions or pipetting errors</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td>Improper incubation times or temperature</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td>Assay performed before reagents were brought to room temperature</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td>Procedure not followed correctly</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td>•</td>
<td>Omission of a reagent or a step</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td>Poor mixing of samples</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td>Low purity of water</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td>Strips were kept dry for too long during/after washing</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td>Inefficient washing</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td>Cross-contamination from other samples or positive control</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td>TMB solution is not clear or colorless</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td>Wrong filter in the microtiter reader</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td>Airbubbles</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td>Imprecise sealing of the plate after use</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td>Wrong storage conditions</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td>Lamp in microplate reader is not functioning optimally</td>
</tr>
</tbody>
</table>

Table 4
14. REFERENCES

1. Peerschke, E et al; Soluble gC1qR in blood and body fluids: Examination in a pancreatic cancer patient cohort. Int J Cancer Res Mol Mech 2015, 1(3)

2. Hosszu, K et al; DC-SIGN, C1q, and gC1qR form a trimolecular receptor complex on the surface of monocyte-derived immature dendritic cells. Blood 2012, 120: 1228


4. Lim, B et al; The binding protein for globular heads of complement C1q, gC1qR. Functional expression and characterization as a novel vitronectin binding factor, J Biol Chem. 1996 Oct 25; 271(43): 26739

5. Peterson, K et al; The C1q-binding cell membrane proteins cC1q-R and gC1q-R are released from activated cells: subcellular distribution and immunochemical characterization, Clin Immunol Immunopathol. 1997 Jul; 84(1): 17

6. Ghebrehiwet, B et al ; Evidence that the two C1q binding membrane proteins, gC1q-R and cC1q-R, associate to form a complex, J Immunol. 1997 Aug 1; 159(3): 1429