



**Life Technologies™**

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## Complement Research

**Innate Immunity** · Acute phase proteins · Western blot · Antimicrobial peptides · **Complement Research** · LPS, Microbial toxins · Flow cytometry · Scavenger receptors · TLR · **Assays** · Inflammation · Adhesion molecules · Immunohistochemistry · Coagulation molecules · Cytokines · Chemokines · **Antibodies** · Cell & Tissue damage · Functional studies · Lipid binding proteins · Immunoprecipitation · Oxidative stress · Organ & Tissue related research · **Proteins** · Mouse mAb isotyping kits



### Life Technologies (India) Pvt Ltd.

306, Agarwal City Mall, opposite M2K Pitampura, Delhi-110034 ( India)

Tel # +91-11-4220-8000; 4220-8111; 4220-8222 Fax# +91-11-4220-8444, Mobile# +91-98105-21400

Email - [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) | [customerservice@atzlabs.com](mailto:customerservice@atzlabs.com)



## General introduction

Hycult Biotech develops, produces and markets antibodies, antibody based products and more specifically immunoassays for innate immunity and directly related fields, with an emphasis on complement, neutrophil proteins, TLR, scavenger receptors and acute phase proteins. Furthermore, we have a strong interest in progressing research in the area of inflammation and cell damage caused by pathogens or oxidation factors.

## Complement

The complement system is not only central to innate immune responses but is also a dominant player in adaptive immunity. Damage-associated molecular patterns (DAMPs) are translated into cellular responses through interaction with specific receptors on distinct cells. Among these are pattern-recognition receptors (PRRs) which identify pathogen associated molecular patterns (PAMPs) and endogenous danger signals, e.g. apoptosis related membrane fragments. Complement components like C1q, C3 and the collectin mannose-binding lectin (MBL) are essential soluble danger sensing proteins that are activated by both endogenous and exogenous stimuli.

The most recent additions to our complement portfolio are the C3c and gC1qR. C3c for example is a stable complement biomarker that appears in the fluid phase only, without any interference of other C3 based products. This underlines the fact that we are a dedicated partner in complement research.

In this Product Leaflet the following abbreviations for the applications have been used:

**FC:** Flow Cytometry  
**FS:** Functional studies  
**IA:** Immunoassays  
**IF:** Immunofluorescence  
**IHC:** Immunohistochemistry  
**F:** Frozen sections  
**P:** Paraffin sections  
**IP:** Immunoprecipitation  
**W:** Western Blot

More information about products within the field of Innate Immunity, Antimicrobial peptides, Microbial toxins, TLR, Inflammation, Cell & Tissue damage, Lipid binding proteins and Oxidative stress can be found on our website. Please feel free to subscribe to our newsletter to remain up-to-date on Hycult Biotech's product information!

With its headquarters in the Netherlands and a sales office in the USA, Hycult Biotech has a distribution network with over 45 distributors all over the world. We believe technical support is essential when using our products or when looking into buying them for your research needs. For this you can always contact our dedicated support team directly on [support@hycultbiotech.com](mailto:support@hycultbiotech.com).

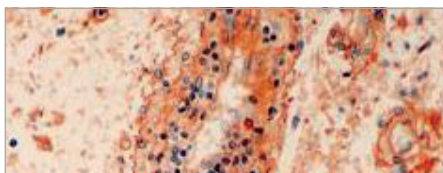
## Assays

### Human

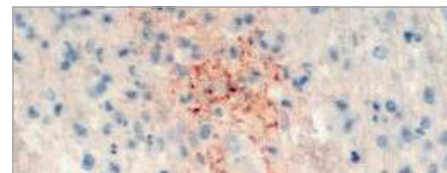
| Product name                       | Quantity    | Cat.# |
|------------------------------------|-------------|-------|
| C1q                                | 1 x 96 det. | HK356 |
| C3a                                | 1 x 96 det. | HK354 |
| C3c                                | 1 x 96 det. | HK368 |
| C5a                                | 1 x 96 det. | HK349 |
| Complement factor D                | 1 x 96 det. | HK343 |
| Complement factor H                | 1 x 96 det. | HK342 |
| Complement factor H, CE IVD        | 1 x 96 det. | DH003 |
| Factor H, 402H/Y variant detection | 1 x 96 det. | HK353 |
| Ficolin-1                          | 1 x 96 det. | HK357 |
| Ficolin-2                          | 1 x 96 det. | HK336 |
| Ficolin-3                          | 1 x 96 det. | HK340 |
| gC1qR                              | 1 x 96 det. | HK362 |
| MAp44                              | 1 x 96 det. | HK359 |
| MASP-2                             | 1 x 96 det. | HK326 |
| MASP-3                             | 1 x 96 det. | HK339 |
| MBL                                | 1 x 96 det. | HK323 |
| MBL, CE IVD                        | 1 x 96 det. | DH001 |
| Properdin                          | 1 x 96 det. | HK334 |
| SP-D                               | 1 x 96 det. | HK335 |
| TCC                                | 1 x 96 det. | HK328 |

### Mouse, rat and pig

| Product name                               | Quantity    | Cat.#  |
|--------------------------------------------|-------------|--------|
| Alternative Complement Pathway, Rat        | 1 x 96 det. | HIT412 |
| C1q, Mouse                                 | 1 x 96 det. | HK211  |
| C5a, Pig                                   | 1 x 96 det. | HK701  |
| Classical Complement Pathway, Rat          | 1 x 96 det. | HIT410 |
| Complement Pathway, Rat (HK410, 411 & 412) | 3 x 96 det. | HIT413 |
| Lectin Complement Pathway, Rat             | 1 x 96 det. | HIT411 |
| MBL-A, Mouse                               | 1 x 96 det. | HK208  |
| MBL-C, Mouse                               | 1 x 96 det. | HK209  |
| TCC, Rat                                   | 1 x 96 det. | HK106  |



C6 in human brain tissue. Staining of paraffin section with monoclonal antibody WU 6-4 (Cat# HM2276)



C9 neoantigen in human brain tissue. Staining of paraffin section with monoclonal antibody WU 13-15 (Cat# HM2264)



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## Antibodies All antibodies have a quantity of 100 µg unless indicated otherwise

| Human                  |               |                    |        | Mouse        |            |                 |        |
|------------------------|---------------|--------------------|--------|--------------|------------|-----------------|--------|
| Product name           | Clone name    | Applications       | Cat.#  | Product name | Clone name | Applications    | Cat.#  |
| Activated C1s          | M241          | FC F FS IA IP P W  | HM2109 | C1q          | 7H8        | F IA IP         | HM1044 |
| Activated C3           | bH6           | F IA P             | HM2168 | C1q          | JL-1       | F FS IA IF W    | HM1096 |
| Activated C3           | I3/15         | IA W               | HM2257 | C3           | 11H9       | FC F IA IF IP W | HM1045 |
| C1s                    | M81           | FC F FS IA IP P W  | HM2108 | C3           | pAb        | F W             | HP8012 |
| C3/C3a                 | 2898          | IA W               | HM2075 | C3a          | 3/11       | FC FS IA W      | HM1072 |
| C3/C3a                 | 474           | IA W               | HM2073 | C3aR         | 14D4       | FC F            | HM1123 |
| C3/C3b                 | 755           | IA W               | HM2072 | C3b/iC3b/C3c | 2/11       | FC F FS IA IF W | HM1065 |
| C3a/C3a des Arg        | 2991          | IA W               | HM2074 | C3b/iC3b/C3c | 3/26       | FC F FS IA IF W | HM1078 |
| C3aR                   | 17            | FC F               | HM2195 | C4           | 16D2       | FC F IA IF IP W | HM1046 |
| C3b/iC3b/C3d           | 1H8           | FC IP W            | HM2287 | C4d          | pAb        | FC F P W        | HP8033 |
| C3c                    | 4             | IP                 | HM2200 | C5           | BB5.1      | F FS IA IP P    | HM1073 |
| C3c                    | F1-4          | IA IP W            | HM2318 | C5           | pAb        | W               | HP8013 |
| C3d                    | 3             | IA IP              | HM2198 | C5aR         | 10/92      | FC F W          | HM1077 |
| C3g                    | 9             | IA IP              | HM2199 | C5aR         | 20/70      | FC FS IF        | HM1076 |
| C4d                    | 7H4           | F IA W             | HM2230 | C5L2         | pAb        | FS              | HP8015 |
| C4d                    | 12D11         | F IA W             | HM2229 | C6           | pAb        | F W             | HP8014 |
| C5/C5a                 | 557           | FS IA W            | HM2077 | C9           | C9-6-25-5  | W               | HM1134 |
| C5/C5a                 | 561           | FS IA              | HM2076 | CD46         | MM10       | FC F IA IF W    | HM1118 |
| C5/C5b                 | 568           | IA W               | HM2080 | CD59a        | 7A6        | FC F FS IA IF W | HM1116 |
| C5a/C5a des Arg        | 2942          | F FS IA W          | HM2078 | CR1/CR2      | 7E9        | FC IF IP W      | HM1112 |
| C5a/C5a des Arg        | 2952          | FS IA W            | HM2079 | Crry/p65     | 8A/E6      | IA              | HM1117 |
| C5aR                   | S5/1          | FC F FS P W        | HM2094 | DAF          | 3D5        | FC W            | HM1115 |
| C5aR                   | W17/1         | FC F P             | HM2095 | Factor H     | 1A2        | F IA W          | HM1119 |
| C5L2                   | pAb           | FC F IF W          | HP9036 | MBL-A        | 2B4        | IA W            | HM1036 |
| C6                     | WU 6-4        | FC FS IA IF IP P W | HM2276 | MBL-A        | 8G6        | F IA IF W       | HM1035 |
| C7                     | WU 4-15       | FC IA IF IP W      | HM2277 | MBL-C        | 14D12      | F IA IF W       | HM1038 |
| C9                     | X197          | FC F FS IA P W     | HM2111 | MBL-C        | 16A8       | IA W            | HM1037 |
| C9 neoantigen          | WU 13-15      | FC F IA P W        | HM2264 |              |            |                 |        |
| CD11b                  | Bear-1        | FC F IP            | HM2125 |              |            |                 |        |
| CD35 (C1R)             | 31R           | FC F IA IP P W     | HM2107 |              |            |                 |        |
| CD46                   | M177          | FC FS IA IP W      | HM2103 |              |            |                 |        |
| CD59                   | MEM-43        | W                  | HM2120 |              |            |                 |        |
| CFHR1-2                | JHD-7.10.1    | IA W               | HM2301 |              |            |                 |        |
| Coagulation factor XII | 10-11-37      | IA W               | HM2322 |              |            |                 |        |
| Complement factor B/Ba | M20/6         | IA IP W            | HM2255 |              |            |                 |        |
| Complement factor B/Ba | P21/15        | IA IP W            | HM2254 |              |            |                 |        |
| Complement factor B/Bb | M13/12        | IA IP W            | HM2256 |              |            |                 |        |
| Complement factor D    | D10/4         | IA                 | HM2258 |              |            |                 |        |
| Complement factor D    | I8/1          | IA                 | HM2259 |              |            |                 |        |
| Complement factor H    | C18/3         | IA W               | HM2248 |              |            |                 |        |
| Complement factor H    | L20/3         | W                  | HM2249 |              |            |                 |        |
| Complement factor I    | MBI-1         | IA W               | HM2319 |              |            |                 |        |
| DAF                    | 1C6           | FC FS IA W         | HM2280 |              |            |                 |        |
| DAF                    | D17           | FC W               | HM2105 |              |            |                 |        |
| Ficolin-1              | 7G1           | FC IA W            | HM2196 |              |            |                 |        |
| Ficolin-1 (50 µg)      | pAb           | FC IF W            | HP9039 |              |            |                 |        |
| Ficolin-2              | GN4           | IA IP              | HM2090 |              |            |                 |        |
| Ficolin-2              | GN5           | IA IP W            | HM2091 |              |            |                 |        |
| Ficolin-3              | 4H5           | IP                 | HM2089 |              |            |                 |        |
| gC1qR                  | 60.11         | FC FS IA IP W      | HM2014 |              |            |                 |        |
| gC1qR                  | 74.5.2        | FC FS IA IP W      | HM2015 |              |            |                 |        |
| MAP44                  | 2D5B6         | IA IP P W          | HM2296 |              |            |                 |        |
| MASP-1                 | 4H2A9         | IA                 | HM2297 |              |            |                 |        |
| MASP-1/3               | 1E2           | IA IP W            | HM2092 |              |            |                 |        |
| MASP-1/3               | 2B11          | IA IP W            | HM2093 |              |            |                 |        |
| MASP-2                 | 8B5           | IA W               | HM2190 |              |            |                 |        |
| MASP-2/Map19           | 6G12          | IA W               | HM2191 |              |            |                 |        |
| MASP-3                 | 38:12-3       | IA W               | HM2216 |              |            |                 |        |
| MBL                    | 3E7           | FC IA W            | HM2061 |              |            |                 |        |
| MBL                    | D8.18         | FC IA W            | HM2081 |              |            |                 |        |
| Pro SP-C               | pAb           | F P W              | HP9050 |              |            |                 |        |
| Properdin              | 2.9           | IA                 | HM2282 |              |            |                 |        |
| Properdin              | SIM 295-9.3.4 | FC F IA W          | HM2283 |              |            |                 |        |
| SP-B                   | pAb           | F P W              | HP9049 |              |            |                 |        |
| TCC                    | aE11          | FS IA IF P         | HM2167 |              |            |                 |        |

## Rat

| Product name      | Clone name | Applications    | Cat.#  |
|-------------------|------------|-----------------|--------|
| C1q               | pAb        | F IA IP         | HP8021 |
| C3                | pAb        | IA W            | HP8022 |
| C3/C3b            | 2B10B9B2   | IA W            | HM3031 |
| C3aR              | 74         | FC F            | HM3028 |
| C4                | pAb        | IA IP           | HP8023 |
| C4d               | pAb        | FC F P W        | HP8034 |
| C5aR              | R63        | FC F IF W       | HM3017 |
| C5b-9             | 2A1        | FC F IA IF P W  | HM3033 |
| C5L2              | pAb        | FC FS           | HP8018 |
| C6                | 3G11       | F IA W          | HM3034 |
| CD46              | MM1        | F IA IF W       | HM3038 |
| CD59 Glycoprotein | TH9        | FC F FS W       | HM3037 |
| Crry              | TLD-1C11   | FC F FS IF W    | HM3032 |
| DAF               | RDII-24    | FC F FS IA IP W | HM3036 |
| DAF               | RDIII-7    | FC F FS IF W    | HM3035 |
| SP-D              | IIIH3      | IA P W          | HM3022 |
| SP-D              | IVG8       | IA P W          | HM3024 |
| SP-D              | VIF9       | IA P W          | HM3023 |

## Pig

| Product name | Clone name | Applications | Cat.#  |
|--------------|------------|--------------|--------|
| DAF          | PD2        | FC FS IA W   | HM4014 |
| SP-B         | pAb        | IA W         | HP7002 |





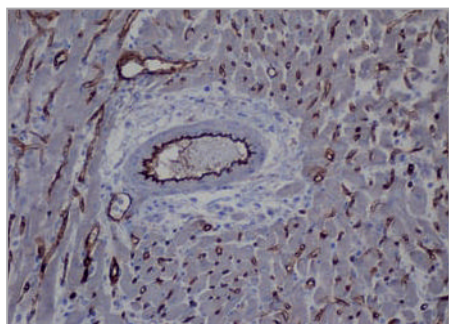
## Proteins/peptides

### Human

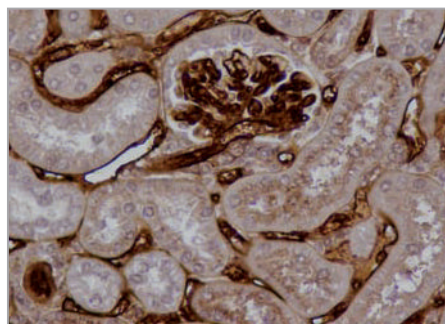
| Product name                 | Quantity | Cat.#  |
|------------------------------|----------|--------|
| C1, Natural                  | 200 µg   | HC2122 |
| C1q, Natural                 | 1 mg     | HC2123 |
| C2, Natural                  | 50 µg    | HC2124 |
| C3, Natural                  | 250 µg   | HC2125 |
| C3a des Arg, Natural         | 50 µg    | HC2127 |
| C3a, Natural                 | 50 µg    | HC2126 |
| C4, Natural                  | 250 µg   | HC2128 |
| C5a des Arg, Recombinant     | 50 µg    | HC2102 |
| C5a, Recombinant             | 50 µg    | HC2101 |
| C5L2, Peptide                | 10 µg    | HC2103 |
| Complement factor B, Natural | 250 µg   | HC2129 |
| Complement factor H, Natural | 250 µg   | HC2130 |
| Complement factor I, Natural | 100 µg   | HC2131 |
| Properdin, Human, Natural    | 100 µg   | HC2132 |

### Mouse and rat

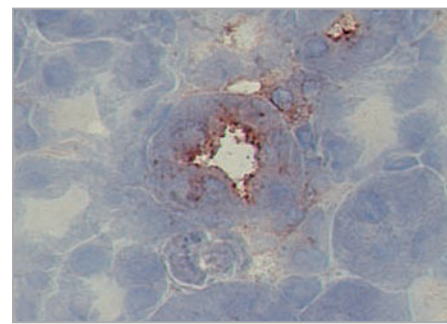
| Product name                    | Quantity | Cat.#  |
|---------------------------------|----------|--------|
| C5a des Arg, Mouse, Recombinant | 50 µg    | HC1102 |
| C5a, Mouse, Recombinant         | 50 µg    | HC1101 |
| C5L2, Mouse, Peptide            | 10 µg    | HC1103 |
| C5L2, Rat, Peptide              | 10 µg    | HC3103 |



C4d in rat heart transplant. Staining of paraffin section with antibody to rat C4d (Cat.# HP8034).



C4d in mouse kidney transplant. Staining of paraffin section with antibody to mouse C4d (Cat.# HP8033).



Tubular MBL-C deposition in mouse kidney subjected to ischemia and reperfusion. Immunohistochemical staining on frozen section with antibody 14D12 (Cat.# HM1038).

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306, Agarwal City Mall, opposite M2K Pitampura, Delhi-110034 ( India)

Tel # +91-11-4220-8000; 4220-8111; 4220-8222 Fax# +91-11-4220-8444, Mobile# +91-98105-21400

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