

Goat anti-Rabbit IgG

Magnetic Particles

Product No. 544010 (2 mL), 544011 (5 mL)

1. General Description

The Abraxis' superparamagnetic nanoparticles are coupled with a biomolecule, such as Goat anti-Rabbit IgG, and are utilized in the magnetic separation and isolation of rabbit antibodies from serum or rabbit antibody-labeled components. The particles have a large surface area with high capture efficiencies.

2. Storage Buffer

Reagent is stored in tris buffered saline pH 7.4 with proteins and preservatives.

3. Storage and Stability

The Goat anti-Rabbit IgG Magnetic Particles should be stored in the refrigerator (4-8°C). The reagent must be allowed to reach room temperature (20-25°C) before use and may be used until the expiration date on the box. Do not freeze, dry, or centrifuge the particles as they may result in loss of binding activity and aggregation.

4. Test Principle

Goat anti-Rabbit IgG magnetic particles are incubated with the rabbit antibody solution and then separated by magnets. After the unbound particulates are washed from the particles, the bound antibodies are eluted from the particles using the elution buffer (not provided). The particles are then magnetically separated from the eluted solution, and the eluted antibodies are removed manually.

5. Warning and Precautions

-This product is for in vitro research use only, do not use in vivo.

-Do not freeze the reagent.

-Prior to use, ensure that the product has not expired by verifying that the date of use is prior to the expiration date on the label.

-Ensure that reagent bottle caps are tight after each use to prevent drying of reagents.

-Mistakes in handling the test can also cause errors. Possible sources for such errors can be:

Inadequate storage conditions of the test kit (or reagents), incorrect pipetting sequence or inaccurate volumes of the reagents, too short incubation times, and/or short magnetic separation times.

6. Characteristics

Particle mean diameter: ~0.5 µm

Particle concentration: 5 mg/mL

Binding capacity: ≥0.2 mg rabbit IgG/mg of particles

7. Antibody Isolation

A. Materials Provided

1. Goat anti-Rabbit IgG magnetic particles, 5 mg/mL

B. Additional Materials (not provided with the kit)

1. Binding/Wash Buffer: TBS - 0.05% Tween 20 detergent
2. Elution Buffer: 0.1 M Glycine pH 2.0, 5 mL
3. Neutralization Buffer: 1M Tris pH 8.0, 1 mL
4. Micro-pipettes with disposable plastic tips (10-200 and 200-1000 μ L)
5. 1.5 mL or 2.0 mL Eppendorf or microcentrifuge vials
6. Timer
7. Rotator
8. Distilled or deionized water
9. Vortex mixer
10. Solo or Multi-6 Microcentrifuge Separator (PN 472270; PN 472260)

C. Procedures

1. Add 100 μ L (0.5 mg) of particles to 1 mL of binding buffer in each tube to wash particles.
2. Magnetically separate using a magnetic separator for 2 minutes or when the supernatant is clear.
3. Remove the supernatant and wash once more by adding 1 mL of binding buffer.
4. Repeat step 2 and remove the supernatant.
5. Resuspend particles by adding 450 μ L of binding buffer.
6. Add 50 μ L of serum or cell culture supernatant to the particles.

Note: Sample volume can be modified according to user preference. If the sample volume is < 500 μ L, dilute it to a final volume of 500 μ L with Binding/Wash Buffer.

7. Gently mix using vortex or rotator for 30 minutes.
8. Magnetically separate using a magnetic separator for 2 minutes or when the supernatant is clear.
9. Remove supernatant and wash with 0.5 mL Binding/Wash buffer to remove unbound proteins.
10. Repeat steps 8 and 9 once more. Remove supernatant.
11. Add 100 μ L of elution buffer to particles and mix well.
12. Incubate at room temperature for 10 minutes with occasional gentle mixing or vortex.
13. Separate for 2 minutes and remove the eluent to a new tube containing 15 μ L of neutralization buffer.

Ordering Information

Description	Size (mL)	Part Number
Goat anti-Rabbit IgG Magnetic Particles	2, 5	544010/11
Other related products:		
Protein A Antibody Isolation Kit		555000
Protein G Antibody Isolation Kit		555010
Protein A Magnetic Particles	2, 5	544030/31
Protein G Magnetic Particles	2, 5	544040/41
Goat anti-Mouse IgG Magnetic Particles	2, 5	544020/21
Goat anti-Human IgG Magnetic Particles	2, 5	544060/61
Multi-6 Microcentrifuge Separator		472260
Solo Tube Separator		472270
15/50 mL Tube Separator		472250
Multi Purpose Magnetic Separator (15/50/microcentrifuge)		472280

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Road No. 44, Pitampura, Delhi – 110034, India

Mobile: +91-98105-21400, Tel: +91-11-42208000, 8111, 8222, Fax: +91-11-42208444

Email: customerservice@lifetechindia.com, www.atzlabs.com; www.lifetechindia.com