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071017

AbraMag™ Goat anti-Human IgG Magnetic Beads

Product No. **544062 (1 mL)**
544060 (4 mL)
544061 (20 mL)

1. General Description

The Abraxis' superparamagnetic nanoparticles are coupled with a biomolecule, such as Goat anti-Human IgG, and are utilized in the magnetic separation and isolation of human antibodies from serum or human 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-Human IgG Magnetic Beads 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 beads as they may result in loss of binding activity and aggregation.

4. Test Principle

Goat anti-Human IgG magnetic beads are incubated with the human antibody solution and then separated by magnets. After the unbound particulates are washed from the beads, the bound antibodies are eluted from the beads using the elution buffer. The beads 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: ≥0.1 mg human IgG/mg of beads

A. Materials Provided

Goat anti-Human IgG magnetic beads, 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 µL)
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. Antibody Isolation Procedure

1. Add 100 µL (0.5 mg) of beads 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 and discard the supernatant. Wash once more by adding 1 mL of binding buffer.
4. Repeat step 2. Remove and discard the supernatant.
5. Resuspend beads by adding 450 µL of binding buffer.
6. Add 50 µL of serum or cell culture supernatant to the beads.

   Note: Sample volume can be modified according to user preference. If the sample supernatant volume is < 50 µL, dilute to a final volume of 500 µL 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 and discard the supernatant.
10. Add 500 µL Binding/Wash buffer to wash the beads and remove unbound proteins.
11. Repeat steps 8 and 9 once more.
12. Add 100 µL of elution buffer to the beads and mix well.
12. Incubate at room temperature for 10 minutes with occasional gentle mixing or vortex.
13. Separate for 2 minutes. Remove and transfer the eluent to a new tube containing 15 µL of neutralization buffer.

Ordering Information for AbraMag™ Products

Description	Size (mL)	Part Number
anti-Human IgG Magnetic Beads	1 mL	544062
	4 mL	544060
	20 mL	544061
anti-Mouse IgG Magnetic Beads	1 mL	544022
	4 mL	544020
	20 mL	544021
anti-Rabbit IgG Magnetic Beads	1 mL	544012
	4 mL	544010
	20 mL	544011
Protein A Magnetic Beads	1 mL	544032
	2 mL	544030
	5 mL	544031
Protein A Magnetic Beads Kit	20 Samples	555000
Protein G Magnetic Beads	1 mL	544042
	2 mL	544040
	5 mL	544041
Protein G Magnetic Beads Kit	20 Samples	555010
Biotin Magnetic Beads	1 mL	544002
	2 mL	544000
	5 mL	544001
Streptavidin Magnetic Beads	1 mL	544052
	2 mL	544050
	5 mL	544051
Nickel Magnetic Beads	0.5 mL	544072
	2 mL	544070
	5 mL	544071
Amine Magnetic Beads	2 mL	544080
	5 mL	544081
Carboxyl Magnetic Beads	2 mL	544085
	5 mL	544086
mRNA Purification Magnetic Beads	2 mL	544075
mRNA Magnetic Purification Kit	10 Samples	555025
DNA Purification Magnetic Beads	1 mL	544090
Genomic DNA Magnetic Purification Kit	100 Samples	555025
15/50 mL Tube Magnetic Separator		472250
Multi-6 Microcentrifuge Magnetic Separator		472260
Solo Microcentrifuge Tube Magnetic Separator		472270
Multi-Purpose Magnetic Separator (15/50/microcentrifuge)		472280