3050 Spruce Street, St. Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Product Information

Anti-Human IgG (Fab specific)-Peroxidase antibody, Mouse monoclonal
Clone GG-6, purified from hybridoma cell culture

Product Number **SAB4200791**

Product Description

Anti-Human IgG (Fab specific)-Peroxidase antibody, Mouse monoclonal (mouse IgG1 isotype) is derived from the GG-6 hybridoma, produced by the fusion of mouse myeloma cells and splenocytes from mouse immunized with purified human IgG (Fab fragment). The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents (Product Number ISO2). The antibody is purified from culture supernatant of hybridoma cells and is conjugated to horseradish peroxidase.

Anti-Human IgG (Fab specific)-Peroxidase antibody, Mouse monoclonal is specific for the Fab fragment of Human IgG and is not reactive with the Fc fragment of human IgG nor human IgM. The antibody is recommended to use in various immunological techniques, including ELISA.

IgGs are the most common immunoglobulins isotype in blood, lymph fluid, cerebrospinal fluid, and peritoneal fluid and are key players in the humoral immune response. IgGs include four subclasses (IgG1, IgG2, IgG3, and IgG4) and consist of a variable Fab fragment (which includes the antibody recognition site), and a conserved Fc fragment.

The IgG subclasses differ in their physical and chemical properties, their distribution pattern is found to be age-dependent, and every subclass has a specific biological function. IgG deficiencies are often associated with various diseases.[1-3]

Reagent

Supplied as a lyophilized powder.

Preparation Instructions

Reconstitute the contents of the vial with 0.25 mL of distilled water to a final antibody concentration of 2 mg/mL. After reconstitution, the solution contains 1% BSA, 2.5% trehalose, and 0.05% MIT in 0.01 M sodium phosphate buffered saline

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the lyophilized product at 2–8 °C. For extended storage after reconstitution, keep at –20 °C in working aliquots. Avoid repeated freeze-thaw cycles. For continuous use after reconstitution, keep at 2–8 °C for up to 1 month. Solutions at working dilution should be discarded if not used within 12 hours.

Product Profile

Direct ELISA: a working dilution of 1:16,000-1:32,000 is recommended using 2.5 μg/mL human IgG for coating.

Note: In order to obtain best results in different techniques and preparations, it is recommended to determine optimal working concentration by titration test.

References

1. Reimer, C.B. et al., *Hybridoma*, **3**, 263-75 (1984).
2. Papadea, C., and Check, I.J., *Crit. Rev. Clin. Lab. Sci.*, **27**, 27-58 (1989).
3. Jefferis, R. et al., *Ann. Biol. Clin.*, **52**, 57-65 (1994).

SG,DR,OKF,LV,MAM,CY 09/21-1