

Description

IgG₁ is an isotype of IgG with a molecular weight of ~155,000 kDa. IgG has protective roles in the immune response including agglutination, opsonization and complement activation.

Technical Information

Antibody: Mouse monoclonal, IgG₁
 Specificity: Bovine IgG₁¹
 Cross-reactivity: Not tested
 Immunogen: Bovine Ig

Formulation and Storage

Purity: IgG purified by protein G affinity chromatography from serum-free cell culture supernatant.

Product Formulation: Lyophilized from a ≥ 1 mg/ml solution in 20 mM NaH₂PO₄ 0.15 M NaCl, 1.0% (w/v) mannitol, pH 7.4. Concentration determined by absorbance at 280 nm using an extinction coefficient of 1.4 (ε_{0.1%}).

Reconstitution: Reconstitute with deionized water.

Storage: Aliquot and store at -20°C for prolonged periods. Avoid freeze-thaw cycles. Alternatively add 0.02% (w/v) sodium azide and store at 4°C.

Country of Origin: Hybridoma country of origin- Kenya.
 Subcloned and produced- USA.

Available Formats: 0.1 mg and 0.5 mg

References

¹ Williams, D.J.L., Newson, J. and Naessens, J. 1990. *Vet. Immunol. Immunopath.* 24:267-283.

Applications

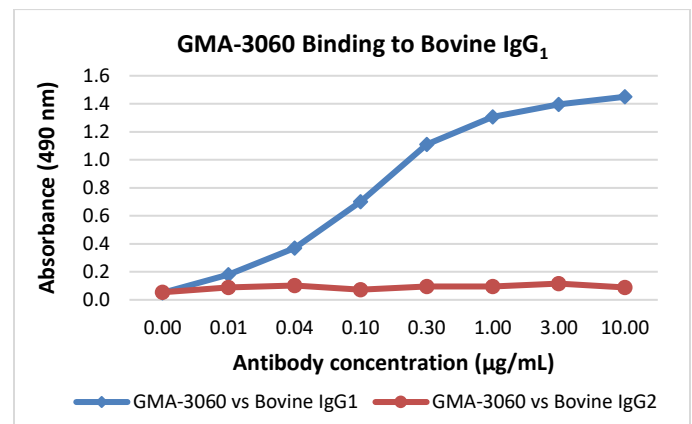
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ELISA: Recommended concentration for user in a solid-phase ELISA is 0.10 µg/mL.

Investigator should titrate for specific application.

ELISA Data

Antibody specificity was confirmed by solid-phase ELISA.



Bovine IgG₁ (Bethyl Laboratories, #P10-116) and Bovine IgG₂ (GMA, serum derived) were coated onto an ELISA plate at a concentration of 2 µg/mL in 0.2M carbonate-bicarbonate coating buffer. Serial dilutions of GMA-3060 were incubated with the antigens.

A goat anti-mouse Ig horseradish peroxidase (HRP) conjugated secondary antibody was used to detect bound GMA-3060. O-phenylenediamine dihydrochloride (OPD) was used as a substrate.

Reaction was read on a plate reader at an absorbance of 490 nm after an approximate 4-minute development time.