**DESCRIPTION**

**Species Reactivity** Human
**Specificity** Detects human IgG₁ in direct ELISAs.

**Source** Monoclonal Mouse IgG₂B Clone # 984907

**Purification** Protein A or G purified from hybridoma culture supernatant

**Immunogen** Synthetic peptide containing human IgG₁

**Formulation** Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
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<tr>
<th><strong>Recommended Concentration</strong></th>
<th><strong>Sample</strong></th>
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<tr>
<td>Western Blot</td>
<td>2 μg/mL</td>
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**ELISA**

This antibody functions as an ELISA capture antibody when paired with Rabbit Anti-Human IgG Monoclonal Antibody (Catalog # MAB11012).

This product is intended for assay development on various assay platforms requiring antibody pairs.

**DATA**

**Western Blot**

Detection of Human IgG₁ by Western Blot. Western blot shows lysates of purified human IgG₂, purified human IgG₃ (negative control), and human purified human IgG₂ (negative control). PVDF membrane was probed with 2 μg/mL of Mouse Anti-Human IgG₁ Monoclonal Antibody (Catalog # MAB9894) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for IgG₁ at approximately 240 kDa (as indicated).

Human IgG₁ (Catalog # MAB9894) is shown as a loading control. This experiment was conducted under non-reducing conditions and using Immobilon® Buffer Group 1.

**ELISA**

Human IgG₁ ELISA Standard Curve. Recombinant Human IgG₁ protein was serially diluted 2-fold and captured by Mouse Anti-Human IgG₁ Monoclonal Antibody (Catalog # MAB9894) coated on a Clear Polystyrene Microplate (Catalog # DY990). Rabbit Anti-Human IgG Monoclonal Antibody (Catalog # MAB11012) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

**PREPARATION AND STORAGE**

**Reconstitution**

Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (SP) is supplied with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

**Stability & Storage**

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.