DESCRIPTION

Species Reactivity: Human
Specificity: Detects human IgG4 in direct ELISAs.
Source: Monoclonal Mouse IgG2A Clone # 985547
Purification: Protein A or G purified from hybridoma culture supernatant
Immunogen: Purified IgG4 from normal human plasma
Formulation: Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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.

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<th>Application</th>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tr>
<td>Western Blot</td>
<td>2 μg/mL</td>
<td>See Below</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 IgG4 by Western Blot. Western blot shows lysates of purified human IgG2 (negative control), purified human IgG3 (negative control), and human purified human IgG4. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human IgG4 Monoclonal Antibody (Catalog # MAB9895) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for IgG4 at approximately 240 kDa (as indicated). Human IgG (Catalog # MAB1101) is shown as a loading control. This experiment was conducted under non-reducing conditions and using Immunoblot Buffer Group 1.

ELISA Human IgG4 ELISA Standard Curve. Recombinant Human IgG4 protein was serially diluted 2-fold and captured by Mouse Anti-Human IgG4 Monoclonal Antibody (Catalog # MAB9895) 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.
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.

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

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.