

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IgG <sub>4</sub> in Western blots and ELISA. In Western blots, no cross-reactivity with human IgG <sub>1</sub> , human IgG <sub>2</sub> , and human IgG <sub>3</sub> .
<b>Source</b>	Recombinant Monoclonal Rabbit IgG Clone # 2350A
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	Purified IgG <sub>4</sub> from normal human plasma
<b>Formulation</b>	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.

	Recommended Concentration	Sample
<b>Western Blot</b>	2 µg/mL	See Below
<b>ELISA</b>	This antibody functions as an ELISA capture antibody when paired with Rabbit Anti-Human IgG Monoclonal Antibody (Catalog # MAB11012). <i>This product is intended for assay development on various assay platforms requiring antibody pairs.</i>	

**DATA**

<p><b>Western Blot</b></p> <p><b>Detection of IgG<sub>4</sub> by Western Blot.</b> Western blot shows lysates of purified human IgG<sub>1</sub> (negative control), purified human IgG<sub>2</sub> (negative control), purified human IgG<sub>3</sub> (negative control), and human purified human IgG<sub>4</sub>. PVDF membrane was probed with 2 µg/mL of Rabbit Anti-Human IgG<sub>4</sub> Monoclonal Antibody (Catalog # MAB98951) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for IgG<sub>4</sub> 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.</p>	<p><b>ELISA</b></p> <p><b>Human IgG<sub>4</sub> ELISA Standard Curve.</b> Recombinant Human IgG<sub>4</sub> protein was serially diluted 2-fold and captured by Rabbit Anti-Human IgG<sub>4</sub> Monoclonal Antibody (Catalog # MAB98951) 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).</p>
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**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>