

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human IgG ₂ in direct ELISAs. It does not detect human IgG ₁ , IgG ₃ and IgG ₄ in direct ELISAs and Western Blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2348B
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Human IgG ₂ protein
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. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
ELISA	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>Western Blot</p> <p>Detection of IgG₂ by Western Blot. Western blot shows purified human IgG₁ (negative control), purified human IgG₂, purified human IgG₃ (negative control), and human purified human IgG₄ (negative control). PVDF membrane was probed with 2 µg/mL of Rabbit Anti-Human IgG₂ Monoclonal Antibody (Catalog # MAB97941) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for IgG₂ 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>ELISA</p> <p>Human IgG₂ ELISA Standard Curve. Recombinant Human IgG₂ protein was serially diluted 2-fold and captured by Rabbit Anti-Human IgG₂ Monoclonal Antibody (Catalog # MAB97941) 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>

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 shipped 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. <ul style="list-style-type: none"> ● 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.