

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IgG _{2A} in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with mouse IgG ₁ , mouse IgG _{2B} , and mouse IgG ₃ was observed.
Source	Monoclonal Rabbit IgG Clone # 2214A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Mouse IgG
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.

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below

DATA

Western Blot

Detection of Mouse IgG_{2A} Primary Antibodies by Western Blot. Western blot shows lysates of HepG2 and Jurkat cell lines. PVDF membrane was probed with anti-HSP90 (Catalog # [MAB3286](#), Mouse IgG_{2B} isotype), anti-HSP60 (Catalog # [MAB1800](#), Mouse IgG_{2B} isotype), anti-GAPDH (Catalog # [MAB5718](#), Mouse IgG₁ isotype), anti-Peroxiredoxin 6 (Catalog # [MAB3490](#), Mouse IgG₃ isotype), and anti-SOD1 (Catalog # [MAB3418](#), Mouse IgG_{2A} isotype). The left panel was then probed with 0.5 µg/mL of Rabbit Anti-Mouse IgG_{2A} (Catalog # [MAB0033](#)) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # [HAF008](#)). A specific band was detected for IgG_{2A} isotype antibody at approximately 18 kDa (as indicated). The right panel was probed with HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # [HAF007](#)) but not Rabbit Anti-Mouse IgG_{2A} Monoclonal Antibody (Catalog # [MAB0033](#)). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry

Detection of Mouse IgG_{2A} Primary Antibody by Anti-Mouse IgG_{2B} specific Secondary Antibody. Human PBMC lymphocytes were stained with Mouse anti-Human CD3 ϵ Monoclonal Antibody (Catalog # [MAB100](#), Mouse IgG₁ isotype), Mouse anti-Human CD4 Monoclonal Antibody (Catalog # [MAB3791](#), Mouse IgG_{2A} isotype), or Mouse anti-Human CD8 α Monoclonal Antibody (Catalog # [MAB1509](#), Mouse IgG_{2B} isotype), followed by Rabbit anti-Mouse IgG_{2A}-specific secondary antibody (Catalog # [MAB0033](#)) then PE-conjugated Goat anti-Rabbit secondary antibody (Catalog # [F0110](#)). View our protocol for [Staining Membrane-associated Proteins](#).

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.