Human Serum Amyloid A1/A2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 902728

Catalog Number: MAB30192

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SAA1/SAA2 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 902728
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human SAA1 synthetic peptide Accession # P0DJI8
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 as a 0.2 μm filtered solution in PBS.

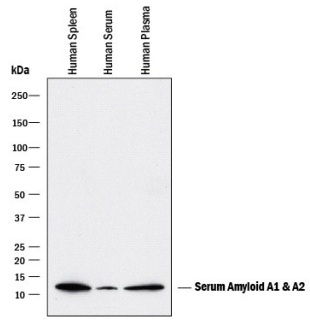
APPLICATIONS

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	0.2 µg/mL	See Below

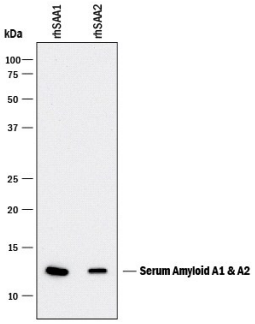
DATA

Western Blot



Detection of Human Serum Amyloid A1/A2 by Western Blot. Western blot shows lysates of human spleen tissue, human serum, and human plasma. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human Serum Amyloid A1/A2 Monoclonal Antibody (Catalog # MAB30192) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Serum Amyloid A1/A2 at approximately 12 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Western Blot



Detection of Recombinant Human Serum Amyloid A1/A2 by Western Blot. Western blot shows 5 ng of Recombinant Human SAA1 and Recombinant Human SAA2. PVDF Membrane was probed with 0.2 µg/mL of Mouse Anti-Human Serum Amyloid A1/A2 Monoclonal Antibody (Catalog # MAB30192) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Serum Amyloid A1/A2 at approximately 12 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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.** ● 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.

BACKGROUND

Human SAA1 is a multifunctional apolipoprotein produced by hepatocytes in response to proinflammatory cytokines. It is secreted as a 12 kDa, 104 amino acid (aa), non-glycosylated polypeptide that displaces apoA1 in the HDL_3 complex. The SAA1 gene is one of three SAA genes in human, and it shows multiple alleles that are race dependent. The SAA1 gene product differs from the SAA2 gene product by only seven amino acids. Circulating SAA1 shows multiple proteolytically-generated isoforms, with anywhere from one-to-three amino acids being cleaved from either the N- or C-terminus. Mature human SAA1 shares 72%, 82%, and 72% aa sequence identity with mature mouse, rabbit, and hamster SAA1, respectively.

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