Mouse Serum Amyloid A1/A2 Antibody
Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2948

DESCRIPTION
Species Reactivity: Mouse
Specificity: Detects mouse Serum Amyloid A1/SA1 and mouse Serum Amyloid A2/SA2 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant human (rh) SA1, rhSA2, recombinant mouse (rm) SA3, and mSAA4 is observed.
Source: Polyclonal Goat IgG
Purification: Antigen Affinity-purified
Immunogen: E. coli-derived recombinant mouse Serum Amyloid A1 Gly20-Tyr122
Accession #: P05366
Formulation: Lyophilized from a 0.2 µg/mL 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.

Recommended
Concentration
Sample
Western Blot
1 µg/mL
See Below
Immunohistochemistry
5-15 µg/mL
See Below
Simple Western
50 µg/mL
See Below

DATA
Western Blot
Detection of Mouse Serum Amyloid A1/A2 by Western Blot. Western blot shows mouse serum and mouse plasma. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse Serum Amyloid A1/A2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2948) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). 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.

Immunohistochemistry
Serum Amyloid A1/A2 in Mouse Liver. Serum Amyloid A1/A2 was detected in perfusion fixed frozen sections of mouse liver using Goat Anti-Mouse Serum Amyloid A1/A2 Antibody (AF2948) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling when primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. Specific staining was localized to cytoplasm. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

Simple Western
Detection of Mouse Serum Amyloid A1/A2 by Simple Western™. Simple Western lane view shows mouse serum, loaded at a 1:100 dilution. A specific band was detected for Serum Amyloid A1/A2 at approximately 14 kDa (as indicated) using 50 µg/mL of (Catalog # AF2948) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-200 kDa separation system.

PREPARATION AND STORAGE
Reconstitution: Reconstitute at 0.2 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.
Mouse Serum Amyloid A protein-1 (SAA1) is a multifunctional apolipoprotein produced by hepatocytes in response to pro-inflammatory cytokines. It is secreted as a 12 kDa, 103 amino acid (aa), nonglycosylated polypeptide and circulates as part of the HDL complex. The SAA1 gene is one of three SAA genes in mouse, and, based on human, is likely to be allelic. The SAA1 gene product differs from the SAA2 gene product by only nine amino acids. In human, circulating SAA1 shows multiple proteolytically-generated isoforms, with anywhere from one to three amino acids being cleaved from either the N- or C-terminus. The same situation may exist in mouse. The amino acid sequence of mature mouse SAA1 is 72%, 72%, 67%, and 74% identical to mature human, rabbit, equine, and hamster SAA1, respectively.