

**Mouse Anti-Human SAA Monoclonal Antibody Datasheet****Product Name:** mAb anti-Human SAA**Clone No.:** 115**Catalogue No.:** MO-C40028A**Quantity:** 0.5 mg /vial**Description:** Mouse monoclonal antibody to human serum amyloid A (SAA)**Purification:** Protein G affinity purified**Product type:** Primary antibody - **Capture** antibody in matched antibody pair**Target Protein:** Human SAA**Immunogen:** Highly purified recombinant human SAA (MW: 12 kDa)**Fusion Myeloma:** Sp2/0-Ag14**Specificity:** This monoclonal antibody reacts with natural and recombinant human SAA.**Species Reactivity:** Human, others not tested**Cross-Reactivity:** Does not show any cross-reaction with other human cytokines or growth factors tested such as IL-1 β , IL-8, MCAF, TGF- β and EGF.**Host / Isotype:** Mouse, IgG1 Kappa**Formulation:** Lyophilized from 0.01M K₂HPO₄ – KH₂PO₄ buffer, pH = 7.0**Reconstitution:** Double distilled water is recommended to reconstitute the antibody.**Storage:** Store at -20°C**Research Area:** Acute phase protein. Inflammatory reaction.**Background:** SAA is an acute phase protein and a sensitive inflammatory marker. Cytokines such as IL-1, IL-6 and TNF- α stimulates hepatocytes to produce and release SAA. In acute phase, SAA in blood can increase to more than 1,000 folds of normal level. Prolonged and repeated elevation of SAA results in abnormal deposition of amyloid proteins in organ or tissue in insoluble beta pleated form. Determination of SAA levels is important for assessment of renal allograft rejection, estimation of tissue damage caused by myocardial infarction and severe angina, and diagnosis of inflammation in cystic fibrosis patients and in patients infected with virus.**Applications:** **ELISA:** This antibody can be used as a capture antibody in sandwich ELISA applications for human SAA detection in combination with a monoclonal tracer/detection antibody (HRP-conjugated, Cat. No.: MO-C40028T; or Biotin-conjugated, Cat. No.: MO-40028TB). Suggested capture coating dose: 0.3 μ g/well.

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Western Blot: The antibody, when used at concentration of 0.1-0.5µg/mL will allow visualization of 100ng/lane of recombinant human SAA.

References:

1. Wu TL et al. Establishment of an in-house ELISA and the reference range for serum amyloid A (SAA): complementarity between SAA and C-reactive protein as markers of inflammation. 2007 Feb; Clin Chim Acta. 376(1-2):72-6.
2. Chandrabala Shah et al. Serum amyloid A is an innate immune opsonin for Gram-negative bacteria. Blood. 2006 108: 1751-1757.
3. Chang Yeop Han et al. Differential Effect of Saturated and Unsaturated Free Fatty Acids on the Generation of Monocyte Adhesion and Chemotactic Factors by Adipocytes. Diabetes. Feb 2010; 59(2): 386-396.
4. Dobrin Nedelkov et al. Investigating diversity in human plasma proteins. Proc. Natl. Acad. Sci. U.S.A. Aug 2, 2005; 102(31): 10852-10857.

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