



Serum Amyloid A1 (SAA1, Amyloid Fibril Protein AA, Amyloid Protein A, MGC111216, PIG4, SAA2, Serum Amyloid A Protein Precursor, SAA, Tumor Protein p53 Inducible Protein 4, TP53I4)

Catalog number

S1002-50B

Supplier

United States Biological

The serum amyloid A (SAA) family comprises a number of differentially expressed lipoproteins, acute phase SAA1 and SAA2, the former being a major component in plasma, and constitutive SAA's (C-SAAs). Although the liver is the primary site of synthesis of both SAA types, extrahepatic production has been reported. The in vivo concentrations of SAA increase by as much as 1000 fold during inflammation. Several studies have expressed SAA's importance in the diagnosis and monitoring of various diseases. Pathological SAA values are often detected in association with normal CRP concentrations. SAA rises earlier and more sharply than CRP.

SAA enhances the binding of HDL's to macrophages and thus helps the delivery of lipid to sites of injury for use in tissue repair. It is thus thought to be an integral part of the disease process. In addition, recent experiments suggest that SAA may play a 'housekeeping' role in normal human tissues. Elevated level of SAA over time predisposes secondary amyloidosis and extracellular accumulation of amyloid fibrils which are derived from a circulating precursor in various tissues and organs. The most common form of amyloidosis occurs secondary to chronic inflammatory disease, particularly rheumatoid arthritis.

Applications

Suitable for use in ELISA and Western Blot. Other applications not tested.

Recommended Dilutions

ELISA: 0.05-0.2ug/ml

Western Blot: 0.5-2ug/ml

Optimal dilutions to be determined by the researcher.

Storage and Stability

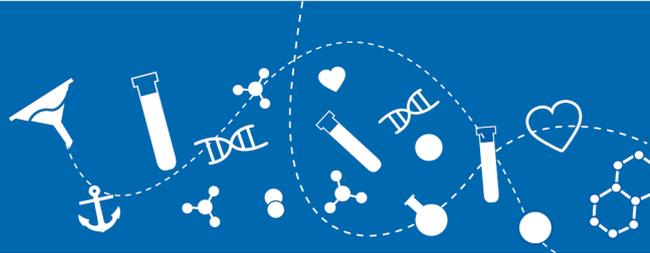
Lyophilized powder may be stored at -20°C. Stable for 12 months after receipt at -20°C. Reconstitute with sterile ddH₂O. Aliquot to avoid repeated freezing and thawing. Store at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Immunogen

Synthetic peptide corresponding to human Serum Amyloid A1, conjugated to KLH. Species Sequence Homology: mouse, rat and bovine

Formulation

Supplied as a lyophilized powder from PBS, pH 7.4, 0.02% sodium azide. Reconstitute with 80ul sterile ddH₂O.



Purity

Purified by immunoaffinity chromatography.

Specificity

Recognizes recombinant human Serum Amyloid A1.

Product Type

Pab

Source

human

Isotype

IgG

Grade

Affinity Purified

Applications

E WB

Crossreactivity

Hu

Storage

-20°C