

SAA (38): sc-69668

BACKGROUND

The serum amyloid A (SAA) family of proteins is encoded by multiple genes, which display allelic variation and a high degree of homology in mammals. The four members of the SAA gene family are clustered on human chromosome 11p15.1. Three SAA genes are differentially expressed and encode small apolipoproteins. SAA1 and SAA2 encode the acute phase SAAs (A-SAAs), and SAA4 encodes the constitutively expressed SAA (C-SAA). A fourth locus, SAA3 is a pseudogene that contains two C/EBP-binding sites and a third site, which interacts with SAA3 enhancer factor. Human SAA proteins are a group of 12-14 kDa apolipoproteins found predominantly in the high-density lipoprotein (HDL) fraction of plasma. SAA is a major acute-phase protein and precursor to amyloid A protein, which is the major constituent of the fibril deposits of reactive amyloidosis. SAA is secreted in large amounts by the liver during microbial infections or inflammatory diseases.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SAA1 (human) mapping to 11p15.1.

SOURCE

SAA (38) is a mouse monoclonal antibody raised against highly purified recombinant SAA of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2b} in 1.0 mL PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

SAA (38) is recommended for detection of natural and recombinant SAA of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1–2 µg per 100–500 µg of total protein (1 ml of cell lysate)]; non cross-reactive with other human cytokines or growth factors tested such as IL-1β, IL-8, MCP-1, TGFβ and EGF.

Suitable for use as control antibody for SAA siRNA (h): sc-40817, SAA shRNA Plasmid (h): sc-40817-SH and SAA shRNA (h) Lentiviral Particles: sc-40817-V.

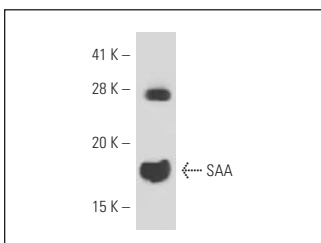
Molecular Weight of SAA: 12 kDa.

Positive Controls: Caki-1 cell lysate: sc-2224.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



SAA (38): sc-69668. Western blot analysis of human recombinant SAA.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.