

SAA (H-84): sc-20651

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 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.

CHROMOSOMAL LOCATION

Genetic locus: SAA2/SAA1 (human) mapping to 11p15.1; Saa3 (mouse) mapping to 7 B4.

SOURCE

SAA (H-84) is a rabbit polyclonal antibody raised against amino acids 38-122 mapping at the C-terminus of SAA of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

PROTOCOLS

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

APPLICATIONS

SAA (H-84) is recommended for detection of SAA3 of mouse origin and SAA1 and SAA2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SAA siRNA (h): sc-40817, SAA siRNA (m): sc-40818, SAA shRNA Plasmid (h): sc-40817-SH, SAA shRNA Plasmid (m): sc-40818-SH, SAA shRNA (h) Lentiviral Particles: sc-40817-V and SAA shRNA (m) Lentiviral Particles: sc-40818-V.

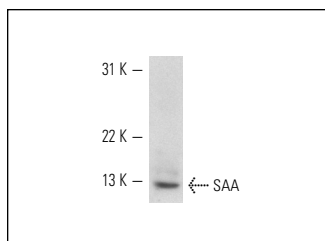
Molecular Weight of SAA: 12 kDa.

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-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



SAA (H-84): sc-20651. Western blot analysis of human recombinant SAA.

SELECT PRODUCT CITATIONS

1. Bahk, Y.Y., et al. 2010. Proteomic analysis of haptoglobin and amyloid A protein levels in patients with vivax malaria. *Korean J. Parasitol.* 48: 203-211.
2. Liu, L., et al. 2011. A combined biomarker pattern improves the discrimination of lung cancer. *Biomarkers* 16: 20-30.

RESEARCH USE

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


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Try **SAA (115): sc-59679**, our highly recommended monoclonal alternative to SAA (H-84).