

Serum Amyloid A2 (SAA2) Active Protein | SAA2 active protein

Active Serum Amyloid A2 (SAA2)

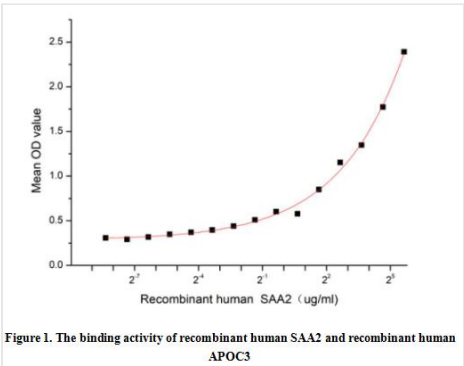
CATALOG # AAA161860	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	-----------------------	---

PRODUCT SYNONYMS

Serum Amyloid A2 (SAA2); Active Serum Amyloid A2 (SAA2); Serum Amyloid A2; SA-A24; SAA2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Arg19~Tyr1 22
Applicable Applications for SAA2 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	9.1
Research Area	Infection immunity
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

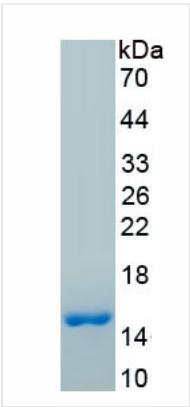


Bioactivity

Serum Amyloid A2 (SAA2) is a multifunctional apolipoprotein that belongs to SAA family. SAA2 is produced by hepatocytes in response to pro-inflammatory cytokines and is the most prominent members of the acute phase response (APR) during which their serum levels rise dramatically after trauma, infection and other stimuli. Besides, Apolipoprotein C3 (APOC3) has been identified as an interactor of SAA2, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human SAA2 and recombinant human APOC3. Briefly, SAA2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to APOC3-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-SAA2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant human SAA2 and recombinant human APOC3 was shown in Figure 1, and this effect was in a dose dependent manner.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for SAA2 active protein	Active proteins
---	-----------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	188497687
NCBI GeneID	6289
NCBI Accession #	NP_001120852.1
NCBI GenBank Nucleotide #	NM_001127380.2
UniProt Accession #	P0DJ9; P02735; P02736; P02737; Q16730; Q16834; Q16835; Q16879; Q3KRB3; Q6FG67; Q96QN0; G3XAK9
Molecular Weight	9,184 Da
NCBI Official Full Name	serum amyloid A-2 protein isoform b
NCBI Official Synonym Full Names	serum amyloid A2
NCBI Official Symbol	SAA2
NCBI Protein Information	serum amyloid A-2 protein
UniProt Protein Name	Serum amyloid A-2 protein
UniProt Gene Name	SAA2
UniProt Synonym Gene Names	SAA2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

