

Product datasheet for **TA600569**

Serum Amyloid A (SAA1) Mouse Monoclonal Capture Antibody [Clone ID: OTI2E4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2E4
Applications:	ELISA
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment of human SAA (NP_954630) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Predicted Protein Size:	13.5 kDa
Gene Name:	serum amyloid A1
Database Link:	NP_000322 Entrez Gene 6288 Human P02735



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Background:

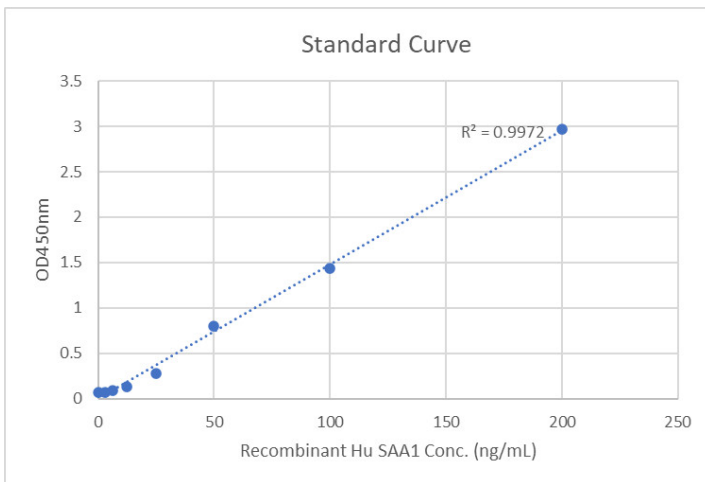
Serum amyloid A1 (SAA1) is a protein that in humans is encoded by the SAA1 gene. SAA1 is a major acute-phase protein mainly produced by hepatocytes in response to infection, tissue injury and malignancy. When released into blood circulation, SAA1 is present as an apolipoprotein associated with high-density lipoprotein (HDL). SAA1 is a major precursor of amyloid A (AA), the deposit of which leads to inflammatory amyloidosis. Mature SAA1 consists of 104 amino acids with an apparent molecular weight of 12,500. Native SAA1 is a hexamer with each subunit assuming an antiparallel 4-helix bundle structure. SAA1 is highly inducible. Inflammatory cytokines such as IL-1 β , IL-6 and TNF- α are major stimulants for hepatocyte expression of the SAA1 gene. Inducible expression of the acute-phase SAA genes involves the transcription factors C/EBP, NF- κ B, AP2, SAF, Sp1 and STAT3. SAA1 has been a clinical indicator and reliable biomarker for inflammatory diseases, chronic metabolic disorders and late-stage malignancy.

Synonyms:

PIG4; SAA; SAA2; TP5314

Matched ELISA Pair:

TA700569

Product images:

SAA1 ELISA with 2E4 Capture (TA600569) and 7A4 Detection ([TA700569]) Antibodies. Standard protein used: Recombinant Human SAA1 (HEK293T expressed protein Cat# [TP310664])