

Serum Amyloid P Recombinant Protein | APCS recombinant protein

Serum Amyloid P Protein, Human, Recombinant (hFc Tag), HPLC-verified

CATALOG #
AAA259195

HOST
HEK293 Cells

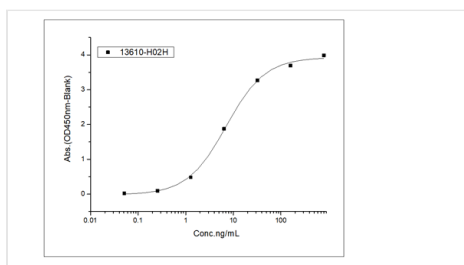
PRODUCT SYNONYMS

Serum Amyloid P; Serum Amyloid P Protein; Human; Recombinant (hFc Tag); HPLC-verified; amyloid P component; serum; HEL-S-92n Protein; PTX2 Protein; SAP Protein; APCS recombinant protein

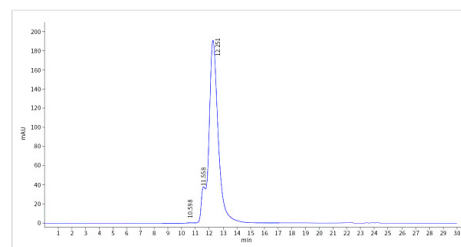
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>= 95% as determined by SDS-PAGE. = 90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, 10% Glycerol, 10% trehalose, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Human
Predicted N Terminal	His 20
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Human APCS (P02743)(Met1-Val223) was expressed with the Fc region of human IgG1 at the C-terminus.
Activity	Immobilized Recombinant Human CD64/FCGR1A Protein (ECD, His Tag)(Cat:10256-H08S) at 2 ug/ml (100 ul/well) can bind Recombinant Human Serum Amyloid P Protein (Fc Tag)(Cat:13610-H02H), the EC50 is 4-12 ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



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Immobilized Recombinant Human CD64 / FCGR1A Protein (ECD, His Tag) (Cat:10256-H08S) at 2 ug/ml (100 ul/well) can bind Recombinant Human Serum Amyloid P Protein (Fc Tag) (Cat:AAA259195), the EC50 is 4-12 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for APCS recombinant protein	Serum amyloid P component (SAP) is the identical serum form of amyloid P component (AP), a highly preserved plasma protein named for its ubiquitous presence in amyloid deposits. As a normal plasma protein first identified as the pentagonal constituent of in vivo pathological deposits called "amyloid". Serum amyloid P component represents another member of the pentraxin family, a highly conserved group of molecules that may play a role in innate immunity. SAP is a key negative regulator for innate immune responses to DNA and may be partly responsible for the insufficient immune responses after DNA vaccinations in humans. SAP suppression may be a novel strategy for improving efficacy of human DNA vaccines and requires further clinical investigations.
References	Wang Y, et al. (2011) Human serum amyloid P functions as a negative regulator of the innate and adaptive immune responses to DNA vaccines. J Immunol. 186(5): 2860-70.Hawkins PN. (2002) Serum amyloid P component scintigraphy for diagnosis and monitoring amyloidosis. Curr Opin Nephrol Hypertens. 11(6): 649-55. Noursadeghi M, et al. (2000) Role of serum amyloid P component in bacterial infection: protection of the host or protection of the pathogen. Proc Natl Acad Sci U S A. 97: 14584-9.de Haas CJ. (1999) New insights into the role of serum amyloid P component, a novel lipopolysaccharide-binding protein. FEMS Immunol Med Microbiol. 26(3-4): 197-202.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502133
NCBI GeneID	325
NCBI Accession #	NP_001630.1
NCBI GenBank Nucleotide #	NM_001639.3
UniProt Accession #	P02743
Molecular Weight	25,387 Da
NCBI Official Full Name	serum amyloid P-component
NCBI Official Synonym Full Names	amyloid P component, serum
NCBI Official Symbol	APCS
NCBI Official Synonym Symbols	SAP; PTX2
NCBI Protein Information	serum amyloid P-component; pentaxin-related; 9.5S alpha-1-glycoprotein
UniProt Protein Name	Serum amyloid P-component
UniProt Gene Name	APCS
UniProt Synonym Gene Names	PTX2; SAP
UniProt Entry Name	SAMP_HUMAN

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.