

Human amyloid P component, serum ELISA Kit | APCS elisa kit

Human Serum amyloid P, SAP ELISA Kit

CATALOG #
AAA79788

REACTIVITY
Human

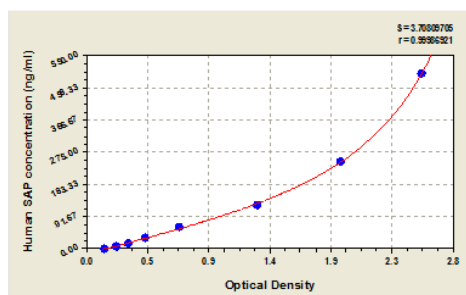
PRODUCT SYNONYMS

amyloid P component; serum; Human Serum amyloid P; SAP ELISA Kit; MGC88159; PTX2; SAP; 9.5S alpha-1-glycoprotein; pentaxin-related; serum amyloid P component; APCS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Human APCS. No significant cross-reactivity or interference between Human APCS and analogues was observed.
Sequence Length	223
Samples	Serum, plasma, tissue homogenates
Detection Range	7.8 ng/ml-500 ng/ml
Sensitivity	1.95 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for APCS elisa kit

Introduction: Amyloid P component, serum (SAP) is the identical serum form of amyloid P component (AP), a 25kDa pentameric protein first identified as the pentagonal constituent of in vivo pathological deposits called "amyloid". AP makes up 14% of the dry mass of amyloid deposits and is thought to be an important contributor to the pathogenesis of a related group of diseases called the Amyloidoses. SAP is a member of the pentraxins family, characterised by calcium dependent ligand binding and distinctive flattened beta-jellyroll structure similar to that of the legume lectins. Human SAP has 51% sequence homology with C-reactive protein (CRP) Both SAP and CRP are evolutionary conserved in all vertebrates and also found in distant invertebrates such as the horseshoe crab.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to SAP. Standards or samples are then added to the appropriate microtiter plate wells with a 3 biotin-conjugated antibody preparation specific for SAP and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain SAP, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of SAP in the samples is then determined by comparing the O.D. of the samples to the standard curve.

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; HEL-S-92n
NCBI Protein Information	serum amyloid P-component; pentaxin-related; 9.5S alpha-1-glycoprotein; epididymis secretory sperm binding protein Li 92n
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.

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Online datasheet: <https://stage.aaabiotech.com/apcs-human-elisa-kits/amyloid-p-component-serum/79788>