

Rabbit Serum Amyloid P Polyclonal Antibody | anti-APCS antibody

Anti-Serum Amyloid P Picoband antibody

CATALOG # AAA124552	HOST Rabbit	REACTIVITY Human No cross reactivity with other proteins.	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
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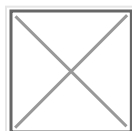
PRODUCT SYNONYMS

Serum Amyloid P; Polyclonal Antibody; Anti-Serum Amyloid P Picoband antibody; Serum amyloid P-component; SAP; 9.5S alpha-1-glycoprotein; Serum amyloid P-component(1-203); APCS; PTX2; anti-APCS antibody

PRODUCT SPECIFICATIONS

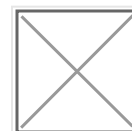
Host	Rabbit
Reactivity	Human No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	223
Applicable Applications for anti-APCS antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived human Serum Amyloid P recombinant protein (Position: H20-L220).
Subcellular Localization	Secreted.
Tissue Specificity	Found in serum and urine.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Figure 3. IHC analysis of Serum Amyloid P using anti-Serum Amyloid P antibody (AAA124552).Serum Amyloid P was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Serum Amyloid P Antibody (AAA124552) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Serum Amyloid P using anti-Serum Amyloid P antibody (AAA124552).Serum Amyloid P was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Serum Amyloid P Antibody (AAA124552) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Serum Amyloid P using anti-Serum Amyloid P antibody (AAA124552). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human placenta tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Serum Amyloid P antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Serum Amyloid P at approximately 25KD. The expected band size for Serum Amyloid P is at 25KD.

ADDITIONAL INFORMATION

Related Product Information for anti-APCS antibody	Description: Amyloid P component, serum(SAP), also known as PTX2 or APCS, 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". It belongs to the pentraxins family, characterised by calcium dependent ligand binding and distinctive flattened beta-jellyroll structure similar to that of the legume lectins. This gene is mapped to 1q23.2. The binding of the encoded protein to proteins in the pathological amyloid cross-beta fold suggests its possible role as a chaperone. This protein is also thought to control the degradation of chromatin. It has been demonstrated that this protein binds to apoptotic cells at an early stage, which raises the possibility that it is involved in dealing with apoptotic cells in vivo. Protein Function: Can interact with DNA and histones and may scavenge nuclear material released from damaged circulating cells. May also function as a calcium-dependent lectin.
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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
UniProt Protein Name	Serum amyloid P-component
UniProt Gene Name	APCS
UniProt Synonym Gene Names	PTX2; SAP

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.