

# Recombinant Mouse APCS/SAP Protein (His Tag)

Catalog Number:PKSM040858



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

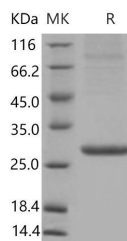
## Description

<b>Synonyms</b>	APCS;PTX2;SAP;9.5S alpha-1-glycoprotein;Serum amyloid P;MGC88159;PTX2serum amyloid P-component;SAP pentaxin-related
<b>Species</b>	Mouse
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Glu 224
<b>Accession</b>	NP_035448.2
<b>Calculated Molecular Weight</b>	25.3 kDa
<b>Observed molecular weight</b>	28 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	1. Immobilized mouse APCS at 10 µg/ml (100 µl/well) can bind biotinylated human Fibronectin Fragment 2 with a linear ranger of 0.625-5 µg/ml. 2. Measured by its ability to bind mouse CD64-AVI in a functional ELISA.

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 90 % as determined by reducing SDS-PAGE.

## Background

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

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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.

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