Recombinant Human Adaptor-Related Protein Complex 1, Sigma 2 Subunit, His-tagged

Cat. No. AP1S2-4967H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AP1S2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	Human
Description	AP1S2, also known as AP-1 complex subunit sigma-2, serves as the small subunit of AP-1 complex 1 and is a member of the adaptin protein family. Adaptor protein complex 1 is found at the cytoplasmic face of coated vesicles located at the Golgi complex, where it mediates both the recruitment of clathrin to the membrane and the recognition of sorting signals within the cytosolic tails of transmembrane receptors.
Concentration	0.5 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 40% glycerol, 0.1M NaCl and 2mM DTT.
Purity	> 85% by SDS - PAGE
Sequence	1-157 amino acids: MGSSHHHHHH SSGLVPRGSH MQFMLLFSRQ GKLRLQKWYV PLSDKEKKKI TRELVQTVLA RKPKMCSFLE WRDLKIVYKR YASLYFCCAI EDQDNELITL EIIHRYVELL DKYFGSVCEL DIIFNFEKAY FILDEFLLGG EVQETSKKNV LKAIEQADLL QEEAETPRSV LEEIGLT

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Molecular Mass	20.7 kDa (177aa), confirmed by MALDI-TOF
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	AP1S2 adaptor-related protein complex 1, sigma 2 subunit [Homo sapiens]
Official Symbol	AP1S2
Synonyms	AP1S2; DC22; MRX59; SIGMA1B; MGC:1902; AP1S2; AP-1 complex subunit sigma-2; sigma1B-adaptin; sigma-adaptin 1B; OTTHUMP00000022979; OTTHUMP00000022980; OTTHUMP00000022981; sigma 1B subunit of AP-1 clathrin; adaptor protein complex AP-1 sigma-1B subunit; clathrin adaptor complex AP1 sigma 1B subunit; golgi adaptor HA1/AP1 adaptin sigma 1B subunit; golgi adaptor HA1/AP1 adaptin sigma-1B subunit; adapter-related protein complex 1 sigma-1B subunit; clathrin assembly protein complex 1 sigma-1B small chain;adaptor-related protein complex 1, sigma 2 subunit; Sigma-adaptin 1B; Golgi adaptor HA1/AP1 adaptin sigma-1B subunit; Adaptor protein complex AP-1 sigma-1B subunit; Sigma 1B subunit of AP-1 clathrin; Clathrin assembly protein complex 1 sigma-1B small chain; mental retardation, X-linked 59; OTTHUMP00000022982; Sigma1B-adaptin; clathrin-associated/assembly/adaptor protein small 1-like
Gene ID	8905
mRNA Refseq	NM_003916
Protein Refseq	NP_003907

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MIM	300629
UniProt ID	P56377
Chromosome Location	Xp22
Pathway	Clathrin derived vesicle budding; Golgi Associated Vesicle Biogenesis; HIV Infection; Host Interactions of HIV factors; Lysosome; Lysosome Vesicle Biogenesis; Membrane Trafficking; Nef mediated downregulation of MHC class I complex cell surface expression; Nef-mediates down modulation of cell surface receptors by recruiting them to clathrin adapters; The role of Nef in HIV-1 replication and disease pathogenesis; trans-Golgi Network Vesicle Budding
Function	protein transporter activity

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