

Recombinant Human adaptor-related protein complex 3, sigma 1 subunit, His-tagged

Cat. No. AP3S1-364H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AP3S1, 1-193aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-193 a.a.
Description	AP-3 complex subunit sigma-1, also known as AP3S1, is a Part of the AP-3 complex, an adapter-related complex which is not clathrin-associated. The complex is associated with the Golgi region as well as more peripheral structures. It facilitates the budding of vesicles from the Golgi membrane and may be directly involved in trafficking to lysosomes. Recombinant human AP3S1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	23.8 kDa (213aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MIKAILIFNN HGKPRLSKFY QPYSED TQQQ IIRETFHLVS KRDENV CNFL EGGLLIGGSD NKLIYRHYAT LYFVFCVDSS ESELGILDLI QV FVETLDKC FENVCELDLI FHVDKVHNIL AEMVMGGMVL

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	ETNMNEIVTQ IDAQNKLEKS EAGLAGAPAR AVSAVKNMNL PEIPRNINIG DISIKVPNLP SFK
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	AP3S1 adaptor-related protein complex 3, sigma 1 subunit [Homo sapiens]
Official Symbol	AP3S1
Synonyms	AP3S1; adaptor-related protein complex 3, sigma 1 subunit; CLAPS3; AP-3 complex subunit sigma-1; sigma3A-adaptin; sigma-3A-adaptin; sigma-adaptin 3a; AP-3 complex sigma-3A subunit; AP-3 complex subunit sigma-3A; adapter-related protein complex 3 sigma-1 subunit; clathrin-associated/assembly/adaptor protein, small 3; clathrin-associated/assembly/adaptor protein, small 3 (22kD); Sigma3A;
Gene ID	1176
mRNA Refseq	NM_001284
Protein Refseq	NP_001275
MIM	601507
UniProt ID	Q92572

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Chromosome Location	5q22
Pathway	Clathrin derived vesicle budding, organism-specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Membrane Trafficking, organism-specific biosystem; trans-Golgi Network Vesicle Budding, organism-specific biosystem;
Function	protein binding; protein transporter activity; transporter activity;

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