

Recombinant Human AP2A1, His-tagged

Cat. No. AP2A1-27357TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 734-950 of Human AP2 alpha isoform B, with a N terminal His tag; predicted MWt 25kDa:
Species	Human
Source	E.coli
ProteinLength	734-950 a.a.
Description	This gene encodes the alpha 1 adaptin subunit of the adaptor protein 2 (AP-2) complex found in clathrin coated vesicles. The AP-2 complex is a heterotetramer consisting of two large adaptins (alpha or beta), a medium adaptin (mu), and a small adaptin (sigma). The complex is part of the protein coat on the cytoplasmic face of coated vesicles which links clathrin to receptors in vesicles. Alternative splicing of this gene results in two transcript variants encoding two different isoforms. A third transcript variant has been described, but its full length nature has not been determined.
Conjugation	HIS
Tissue specificity	Isoform A expressed in forebrain, skeletal muscle, spinal cord, cerebellum, salivary gland, heart and colon. Isoform B is widely expressed in tissues and also in breast cancer and in prostate carcinoma cells.
Form	Lyophilised:Reconstitution with 45 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	FENQLLQIGVKSEFRQNLGRMYLFYGNKTSVQFQNFSPV VHPGDLQTQLAVQTK RVAAQVDGGAQVQQVLNIECLRD FLTPLLSVRFYGGAPQALTLKLPVTINKFFQP TEMA AQDFFQRWKQLSLPQQEAQKIFKANHPMDAEVTKAKLLGF GSALLDNVDPN PENFVGAGIIQTKALQVGCLLRLEPNA QAQMYRLTLRTSKEPVSRLCEL
Sequence Similarities	Belongs to the adaptor complexes large subunit family.
GENE INFORMATION	
Gene Name	AP2A1 adaptor-related protein complex 2, alpha 1 subunit [Homo sapiens]
Official Symbol	AP2A1
Synonyms	AP2A1; adaptor-related protein complex 2, alpha 1 subunit; ADTAA, CLAPA1; AP-2 complex subunit alpha-1;
Gene ID	160
mRNA Refseq	NM_014203
Protein Refseq	NP_055018
MIM	601026
Uniprot ID	O95782

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Chromosome Location	19q13.3
Pathway	Arf1 pathway, organism-specific biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; EGFR downregulation, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem;
Function	protein C-terminus binding; protein binding; protein transporter activity;

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