Ap-4 Complex Subunit Beta-1 (AP4B1) ELISA Kit for Rabbit

PRODUCT OVERVIEW

Product Name	AP-4 complex subunit beta-1 (AP4B1), ELISA Kit
Full Product Name	Rabbit AP-4 complex subunit beta-1 (AP4B1) ELISA Kit
Product Gene Name	AP4B1 elisa kit
Species Reactivity	Rabbit
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	34,403 Da
OMIM	gene 614066
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for AP4B1 elisa kit	Signal Transduction
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for AP4B1 elisa kit	MBS7218410 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the AP-4 complex subunit beta-1 (AP4B1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing AP4B1. The ELISA analytical biochemical technique of the MBS7218410 kit is based on AP4B1 antibody-AP4B1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect AP4B1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, AP4B1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of AP4B1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AP4B1. It may not necessarily be applicable to this product.

NCBI GI #	359806950
NCBI GeneID	10717
NCBI Accession #	NP_001240782.1
UniProt Secondary Accession #	Q59EJ4; Q96CL6; B7Z4X3
UniProt Related Accession #	Q9Y6B7
GenBank Nucleotide #	NM_001253853.1
NCBI Official Full Name	AP-4 complex subunit beta-1 isoform 2
NCBI Official Synonym Full Names	adaptor-related protein complex 4, beta 1 subunit
NCBI Official Symbol	AP4B1

NCBI Official Synonym Symbols	CPSQ5; SPG47; BETA-4
UniProt Protein Name	AP-4 complex subunit beta-1
UniProt Synonym Protein Names	AP-4 adaptor complex subunit beta; Adaptor-related protein complex 4 subunit beta-1; Beta subunit of AP-4; Beta4-adaptin
Protein Family	AP-4 complex
UniProt Gene Name	AP4B1
UniProt Entry Name	AP4B1_HUMAN
NCBI Protein Information	AP-4 complex subunit beta-1; beta4-adaptin; spastic paraplegia 47; beta 4 subunit of AP-4; AP-4 adaptor complex subunit beta; adaptor-related protein complex 4 subunit beta-1
NCBI Summary for AP4B1	This gene encodes a subunit of a heterotetrameric adapter-like complex 4 that is involved in targeting proteins from the trans-Golgi network to the endosomal-lysosomal system. Mutations in this gene are associated with cerebral palsy spastic quadriplegic type 5 (CPSQ5) disorder. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
UniProt Comments for AP4B1	AP4B1: Subunit of novel type of clathrin- or non-clathrin- associated protein coat involved in targeting proteins from the trans-Golgi network (TGN) to the endosomal-lysosomal system. Defects in AP4B1 are the cause of cerebral palsy spastic quadriplegic type 5 (CPSQ5). CPSQ5 is a neurodevelopmental disorder characterized by neonatal hypotonia that progresses to hypertonia and spasticity, and severe mental retardation with poor or absent speech development. Belongs to the adaptor complexes large subunit family. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 1p13.2 Cellular Component: clathrin adaptor complex; coated pit; trans-Golgi network Molecular Function: transporter activity; protein transporter activity Biological Process: vesicle-mediated transport; intracellular protein transport Disease: Spastic Paraplegia 47, Autosomal Recessive
Research Articles on AP4B1	**1.** Data suggest that AP4B1 mutations cause spastic paraplegia type 47 and should be considered in early onset spastic paraplegia with intellectual disability.
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