abcam

Product datasheet

Recombinant Human AP4M1 protein ab132604

1 Image

Overview

Product name	Recombinant Human AP4M1 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Accession	O00189
Species	Human
Sequence	MISQFFILSSKGDPLIYKDFRGDSGGRDVAELFYRKLTG LPGDESPVVMH HHGRHFIHIRHSGLYLVVTTSENVSPFSLLELLSRLATLL GDYCGSLGEG TISRNVALVYELLDEVLDYGYVQTTSTEMLRNFIQTEAV VSKPFSLFDLS SVGLFGAETQQSKVAPSSAASRPVLSSRSDQSQKNE VFLDVVERLSVLIA SNGSLLKVDVQGEIRLKSFLPSGSEMRIGLTEEFCVGK SELRGYGPGIRV DEVSFHSSVNLDEFESHRILRLQPPQGELTVMRYQLS DDLPSPLPFRLFP SVQWDRGSGRLQVYLKLRCDLLSKSQALNVRLHLPLP RGVVSLSQELSSP EQKAELAEGALRWDLPRVQGGSQLSGLFQMDVPGP PGPPSHGLSTSASPL GLGPASLSFELPRHTCSGLQVRFLRLAFRPCGNANPH KWVRHLSHSDAYV IRI
Molecular weight	76 kDa including tags
Amino acids	1 to 453

Specifications

Our Abpromise guarantee covers the use of **ab132604** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA SDS-PAGE Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 µg/µl.

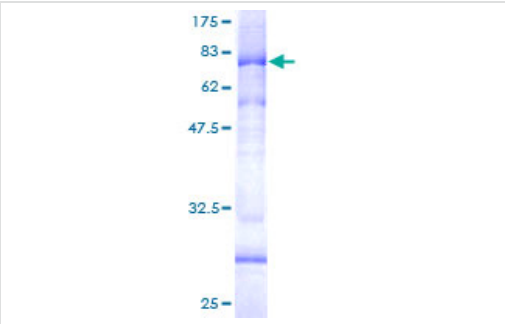
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	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.
Tissue specificity	Ubiquitous. Highly expressed in testis and lowly expressed in brain and lung.
Involvement in disease	Defects in AP4M1 are the cause of cerebral palsy spastic quadriplegic type 3 (CPSQ3) [MIM:612936]. A non-progressive disorder of movement and/or posture resulting from defects in the developing central nervous system. Affected individuals present postnatally with early infantile hypotonia, delayed psychomotor development, strabismus, lack of independent walking and severe mental retardation. They develop progressive spasticity of all limbs with generalized hypertonia, hyperreflexia, and extensor plantar responses by the end of the first year of life. Speech is absent or limited. Pseudobulbar signs, such as drooling, stereotypic laughter, and exaggerated jaw jerk, are part of the clinical picture.
Sequence similarities	Belongs to the adaptor complexes medium subunit family. Contains 1 MHD (mu homology) domain.
Domain	Interacts specifically with tyrosine-based sorting signals.
Cellular localization	Golgi apparatus > trans-Golgi network. Membrane > coated pit. Associated with the trans-Golgi network. Found in soma and dendritic shafts of neuronal cells.

Images



SDS-PAGE - Recombinant Human AP4M1 protein (ab132604)

12.5% SDS-PAGE analysis of ab132604 stained with Coomassie Blue.

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