

AP4M1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17446c**Specification**

AP4M1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O00189](#)**AP4M1 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 9179

Other Names

AP-4 complex subunit mu-1, AP-4 adaptor complex mu subunit, Adaptor-related protein complex 4 subunit mu-1, Mu subunit of AP-4, Mu-adaptin-related protein 2, mu-ARP2, Mu4-adaptin, mu4, AP4M1, MUARP2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AP4M1 Antibody (Center) Blocking Peptide - Protein InformationName AP4M1 ([HGNC:574](#))

Synonyms MUARP2

Function

Component of the adaptor protein complex 4 (AP-4). Adaptor protein complexes are vesicle coat components involved both in vesicle formation and cargo selection. They control the vesicular transport of proteins in different trafficking pathways (PubMed:10436028, PubMed:11139587, PubMed:10066790, PubMed:11802162, PubMed:20230749). AP-4 forms a non clathrin-associated coat on vesicles departing the trans-Golgi network (TGN) and may be involved in the targeting of proteins from the trans-Golgi network (TGN) to the endosomal-lysosomal system (PubMed:11139587, PubMed:20230749). It is also involved in protein sorting to the basolateral membrane in epithelial cells and the proper asymmetric localization of somatodendritic proteins in

neurons (By similarity). Within AP-4, the mu-type subunit AP4M1 is directly involved in the recognition and binding of tyrosine-based sorting signals found in the cytoplasmic part of cargos (PubMed:10436028, PubMed:11139587, PubMed:26544806, PubMed:20230749). The adaptor protein complex 4 (AP-4) may also recognize other types of sorting signal (By similarity).

Cellular Location

Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Early endosome. Note=Found in soma and dendritic shafts of neuronal cells. {ECO:0000250|UniProtKB:Q2PWT8}

Tissue Location

Ubiquitous. Highly expressed in testis and lowly expressed in brain and lung.

AP4M1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

AP4M1 Antibody (Center) Blocking Peptide - Images

AP4M1 Antibody (Center) Blocking Peptide - Background

This gene encodes a subunit of the heterotetrameric AP-4 complex. The encoded protein belongs to the adaptor complexes medium subunits family. This AP-4 complex is involved in the recognition and sorting of cargo proteins with tyrosine-based motifs from the trans-golgi network to the endosomal-lysosomal system.

AP4M1 Antibody (Center) Blocking Peptide - References

Verkerk, A.J., et al. Am. J. Hum. Genet. 85(1):40-52(2009) Matsuda, S., et al. Neuron 57(5):730-745(2008) Lamesch, P., et al. Genomics 89(3):307-315(2007) Simmen, T., et al. Nat. Cell Biol. 4(2):154-159(2002) Boehm, M., et al. EMBO J. 20(22):6265-6276(2001)