

AP4M1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17446c**Specification**

AP4M1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O00189
Other Accession	Q2PWT8 , Q9JKC7 , Q29RY8 , NP_004713.2
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	49977
Antigen Region	223-251

AP4M1 Antibody (Center) - 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

Target/Specificity

This AP4M1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 223-251 amino acids from the Central region of human AP4M1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

AP4M1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

AP4M1 Antibody (Center) - Protein Information**Name** 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

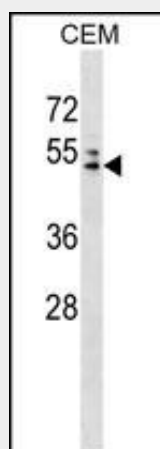
Ubiquitous. Highly expressed in testis and lowly expressed in brain and lung.

AP4M1 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AP4M1 Antibody (Center) - Images



AP4M1 Antibody (Center) (Cat. #AP17446c) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the AP4M1 antibody detected the AP4M1 protein (arrow).

AP4M1 Antibody (Center) - 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) - 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)