10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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
E~~Use at an assay dependent concentration.

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:10066790, PubMed:10436028, PubMed:11139587, 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:20230749, PubMed:26544806). 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}

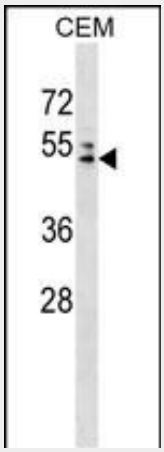
Tissue Location
Ubiquitous. Highly expressed in testis and lowly expressed in brain and lung.

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 Cytomety
- 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)