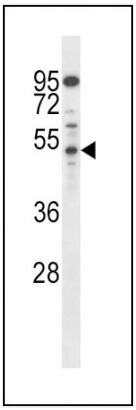
AP2M1 Antibody – Rabbit Polyclonal

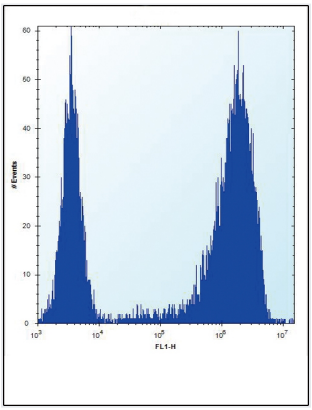
PRODUCT OVERVIEW

Product Name	AP2M1, Polyclonal Antibody
Full Product Name	AP2M1, CT (AP2M1, CLAPM1, KIAA0109, AP-2 complex subunit mu, AP-2 mu chain, Adapter-related protein complex 2 mu subunit, Adaptin-mu2, Adaptor protein complex AP-2 subunit mu, Clathrin assembly protein complex 2 medium chain, Clathrin coat assembly protei
Product Gene Name	anti-AP2M1 antibody
Product Synonym Names	AP2M1; CLAPM1; KIAA0109; AP-2 complex subunit mu; AP-2 mu chain; Adapter-related protein complex 2 mu subunit; Adaptin-mu2; Adaptor protein complex AP-2 subunit mu; Clathrin assembly protein complex 2 medium chain; Clathrin coat assembly protein AP50; Clathrin coat-associated protein AP50; HA2 50kD subunit; Plasma membrane adaptor AP-2 50kD protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	435
Chromosome Location	Chromosome: 3; NC_000003.11 (183892634..183901879). Location: 3q28
OMIM	601024
3D Structure	ModBase 3D Structure for Q96CW1
Immunogen	AP2M1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 386-415 amino acids from the C-terminal region of human AP2M1.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-AP2M1 antibody	Antibodies; Clathrin
Applications Tested/Suitable for anti-AP2M1 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-AP2M1 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-AP2M1 antibody	This gene encodes a subunit of the heterotetrameric coat assembly protein complex 2 (AP2), which belongs to the adaptor complexes medium subunits family. The encoded protein is required for the activity of a vacuolar ATPase, which is responsible for proton pumping occurring in the acidification of endosomes and lysosomes. The encoded protein may also play an important role in regulating the intracellular trafficking and function of CTLA-4 protein. Two transcript variants encoding different isoforms have been found for this gene.
Product References and Citations for anti-AP2M1 antibody	Kahlfeldt, N., et al. J. Biol. Chem. 285(4):2734-2749(2010). Boucrot, E., et al. PLoS ONE 5 (5), E10597 (2010): Yoshida, T., et al. Int. J. Mol. Med. 24(2):233-246(2009). Levecque, C., et al. Am. J. Physiol., Cell Physiol. 297 (1), C160-C168 (2009): Stanasila, L., et al. Mol. Pharmacol. 74(3):562-573(2008).
Other Notes	Small volumes of anti-AP2M1 antibody 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.
Searchable Terms for AP2M1 purchase	MBS6274085 is an antibody targeting AP2M1. Also known as AP2M1, CT (AP2M1, CLAPM1, KIAA0109, AP-2 complex subunit mu, AP-2 mu chain, Adapter-related protein complex 2 mu subunit, Adaptin-mu2, Adaptor protein complex AP-2 subunit mu, Clathrin assembly protein complex 2 medium chain, Clathrin coat assembly protei. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-AP2M1 antibody
AP2M1 Antibody (C-term) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane).This demonstrates the AP2M1 antibody detected the AP2M1 protein (arrow).



Flow Cytometry (FC/FACS) of anti-AP2M1 antibody
AP2M1 Antibody (C-term) flow cytometric analysis of Neuro-2a cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AP2M1. It may not necessarily be applicable to this product.

NCBI GI #	68799814
NCBI GeneID	1173
NCBI Accession #	NP_001020376.1
NCBI Related Accession #	NP_004059.2
UniProt Primary Accession #	Q96CW1
UniProt Secondary Accession #	P20172; P53679; A6NE12; D3DNT1
UniProt Related Accession #	Q96CW1
GenBank Nucleotide #	NM_001025205.1
NCBI Official Full Name	AP-2 complex subunit mu isoform b
NCBI Official Synonym Full Names	adaptor-related protein complex 2, mu 1 subunit
NCBI Official Symbol	AP2M1
NCBI Official Synonym Symbols	mu2; AP50; CLAPM1
UniProt Protein Name	AP-2 complex subunit mu

UniProt Synonym Protein Names	AP-2 mu chain; Adaptin-mu2; Adaptor protein complex AP-2 subunit mu; Adaptor-related protein complex 2 subunit mu; Clathrin assembly protein complex 2 mu medium chain; Clathrin coat assembly protein AP50; Clathrin coat-associated protein AP50; HA2 50 kDa subunit; Plasma membrane adaptor AP-2 50 kDa protein
UniProt Gene Name	AP2M1
UniProt Synonym Gene Names	CLAPM1; KIAA0109
UniProt Entry Name	AP2M1_HUMAN
NCBI Protein Information	AP-2 complex subunit mu; adaptin-mu2; AP-2 mu chain; AP-2 mu 2 chain; HA2 50 kDA subunit; clathrin coat adaptor protein AP50; clathrin coat assembly protein AP50; clathrin coat-associated protein AP50; adaptor protein complex AP-2 subunit mu; clathrin ada
UniProt Comments for AP2M1	AP2M1: a protein of the adaptor complexes medium subunit family. A subunit of the heterotetrameric coat assembly protein complex 2 (AP2) which links clathrin to receptors in coated vesicles. Interacts with the cytoplasmic tails of membrane proteins and polyphosphoinositide-containing lipids. Is not required for clathrin-coated vesicle formation at the plasma membrane, but that it is one of several endocytic adaptors required for the uptake of certain cargo proteins. Is required for the activity of a vacuolar ATPase, which is responsible for proton pumping occurring in the acidification of endosomes and lysosomes. AP-2 is a heterotetramer composed of two large chains (alpha and beta), a medium chain (AP50) and a small chain (AP17). Protein type: Vesicle; Adaptor/scaffold Chromosomal Location of Human Ortholog: 3q28 Cellular Component: mitochondrion; lysosomal membrane; plasma membrane; AP-2 adaptor complex; cytosol Molecular Function: protein binding; low-density lipoprotein receptor binding; transporter activity; signal sequence binding; lipid binding Biological Process: epidermal growth factor receptor signaling pathway; negative regulation of epidermal growth factor receptor signaling pathway; intracellular protein transport; axon guidance; synaptic transmission; viral reproduction; nerve growth factor receptor signaling pathway; ephrin receptor signaling pathway; antigen processing and presentation of exogenous peptide antigen via MHC class II; regulation of defense response to virus by virus
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