Anti-AP2M1 Antibody

Description	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. Three transcript variants encoding different isoforms have been found for this gene.

Model	STJ115897
Host	Rabbit
Reactivity	Human
Applications	IF
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 134-433 of human AP2M1 (NP_001020376.1).
Gene ID	1173
Gene Symbol	AP2M1
Dilution range	IF 1:50 - 1:100
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	AP-2 complex subunit mu 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 A

Molecular Weight	49.655 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:564OMIM:601024Reactome:R-HSA-164939
Alternative Names	AP-2 complex subunit mu 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 A
Function	Component of the adaptor protein complex 2 (AP-2), Adaptor protein complexes function in protein transport via transport vesicles in different membrane traffic pathways, Adaptor protein complexes are vesicle coat components and appear to be involved in cargo selection and vesicle formation, AP-2 is involved in clathrin-dependent endocytosis in which cargo proteins are incorporated into vesicles surrounded by clathrin (clathrin-coated vesicles, CCVs) which are destined for fusion with the early endosome, The clathrin lattice serves as a mechanical scaffold but is itself unable to bind directly to membrane components, Clathrin-associated adaptor protein (AP) complexes which can bind directly to both the clathrin lattice and to the lipid and protein components of membranes are considered to be the major clathrin adaptors contributing the CCV formation, AP-2 also serves as a cargo receptor to selectively sort the membrane proteins involved in receptor-mediated endocytosis, AP-2 seems to play a role in the recycling of synaptic vesicle membranes from the presynaptic surface, AP-2 recognizes Y-X-X-[FILMV] (Y-X-X-Phi) and [ED]-X-X-X-L-[LI] endocytosis signal motifs within the cytosolic tails of transmembrane cargo molecules, AP-2 may also play a role in maintaining normal post-endocytic trafficking through the ARF6-regulated, non-clathrin pathway, The AP-2 mu subunit binds to transmembrane cargo proteins
Cellular Localization	Cell membrane, Membrane, coated pit