

## Product datasheet for **CF503015**

### AP2M1 Mouse Monoclonal Antibody [Clone ID: OTI1F10]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1F10
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 97-383 of human AP2M1 (NP_001020376) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	49.2 kDa
Gene Name:	adaptor related protein complex 2 subunit mu 1
Database Link:	<a href="#">NP_001020376</a> <a href="#">Entrez Gene 11773 Mouse</a> <a href="#">Entrez Gene 116563 Rat</a> <a href="#">Entrez Gene 1173 Human</a> <a href="#">Q96CW1</a>



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**Background:**

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. [provided by RefSeq]

**Synonyms:**

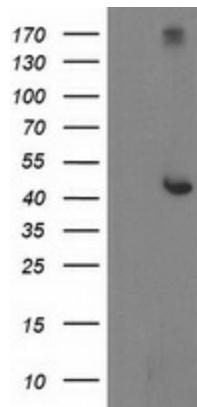
AP50; CLAPM1; mu2

**Protein Families:**

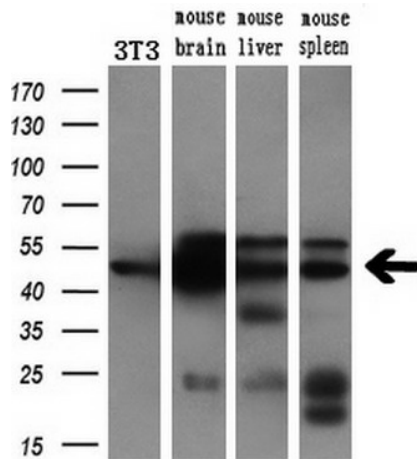
Druggable Genome

**Protein Pathways:**

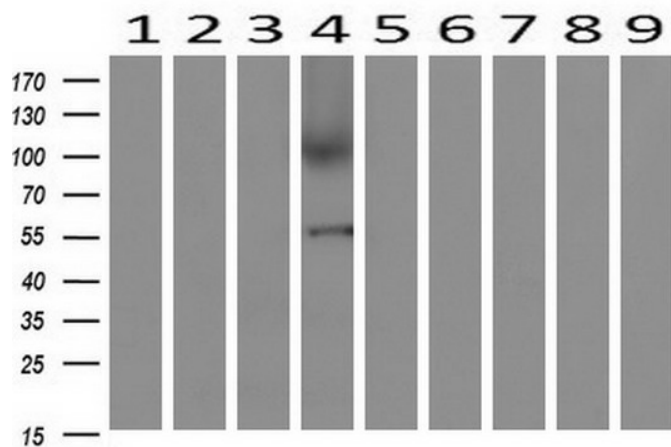
Endocytosis, Huntington's disease

**Product images:**


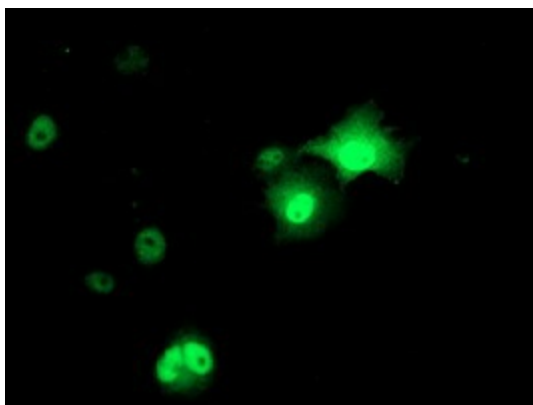
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY AP2M1 (Cat# [RC201377], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AP2M1 (Cat# [TA503015]). Positive lysates [LY422484] (100ug) and [LC422484] (20ug) can be purchased separately from OriGene.



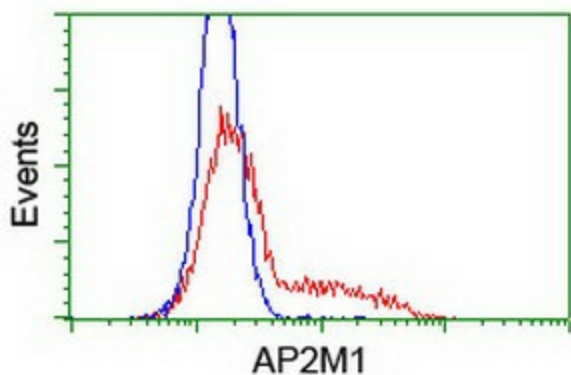
Western blot analysis of extracts (10ug) from a mouse cell line and 3 different mouse tissues by using anti-AP2M1 monoclonal antibody (1:200).



Western blot analysis of extracts (10ug) from 9 Human tissue by using anti-AP2M1 monoclonal antibody at 1:1000 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon).



Anti-AP2M1 mouse monoclonal antibody ([TA503015]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY AP2M1 ([RC201377]).



HEK293T cells transfected with either [RC201377] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-AP2M1 antibody ([TA503015]), and then analyzed by flow cytometry.