Anti-Phospho-AP2M1 (Thr156) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R010459

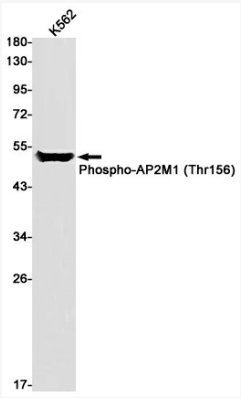
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	83M63K45
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Thr156 of human AP2M1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-AP2M1 (Thr156) Rabbit mAb [83M63K45] is for research use only and not for use in diagnostic or therapeutic procedures.

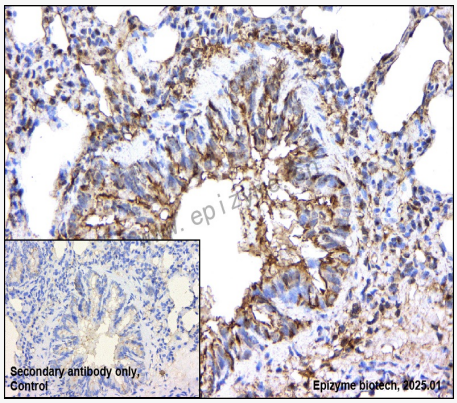
Protein Information

Synonyms	Adapter-related protein complex 2 mu subunit, Adaptin mu 1, Adaptin-mu2, Adaptor protein complex AP 2 subunit mu, Adaptor protein complex AP-2 subunit mu, Adaptor related protein complex 2 mu 1 subunit, AP 2 mu 2 chain, AP-2 complex subunit mu, AP-2 mu chain, Ap2m1, AP2M1_HUMAN, AP50, CLAPM1, Clathrin adaptor complex AP2 mu subunit, Clathrin assembly protein complex 2 medium chain, Clathrin associated/assembly/adaptor protein medium 1, Clathrin coat adaptor protein AP50, Clathrin coat assembly protein AP50, Clathrin coat associated protein AP50, Clathrin coat-associated protein AP50, HA2 50 kDa subunit, mu2, Plasma membrane adaptor AP-2 50 kDa protein.
Calculated MW	Calculated MW: 50 kDa; Observed MW: 50 kDa
Uniprot ID	Q96CW1
Gene ID	1173
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. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2015]
Cellular Location	Cell membrane. Membrane > coated pit. AP-2 appears to be excluded from internalizing CCVs and to disengage from sites of endocytosis seconds before internalization of the nascent CCV.

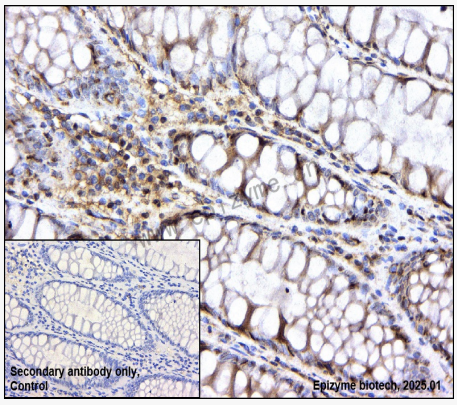
Validation Images



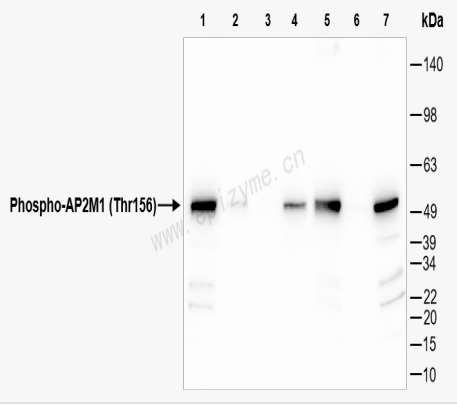
Western blot analysis of Phospho-AP2M1 (Thr156) in K562 lysates using Phospho-AP2M1 (Thr156) antibody.



Immunohistochemistry - Anti-Phospho-AP2M1 (Thr156) Rabbit mAb [83M63K45]
Sample: Paraformaldehyde-fixed, paraffin embedded rat lung tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010459 at 1:100 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-AP2M1 (Thr156) Rabbit mAb [83M63K45]
Sample: Paraformaldehyde-fixed, paraffin embedded human rectal adenocarcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010459 at 1:100 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Western Blot - Anti-Phospho-AP2M1 (Thr156) Rabbit mAb [83M63K45]
All lanes: R010459 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: U2OS (Human osteosarcoma epithelial cell) whole cell lysates
Lane 3: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 4: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 5: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 6: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 7: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 50 kDa
Observed band size: 50 kDa
Developed using the ECL technique (Cat. No. SQ201).