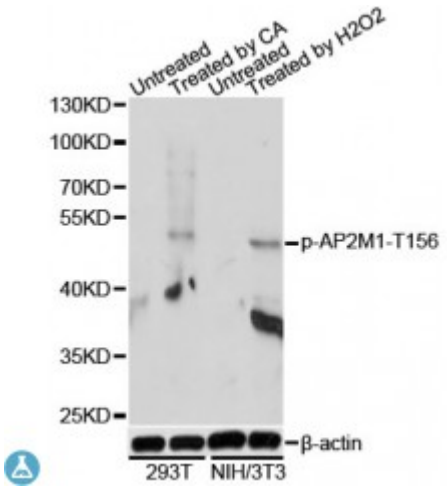
# Anti-Phospho-AP2M1-(T156) Antibody

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| **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. |

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| **Model** | STJ117921 |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Applications** | WB |
| **Immunogen** | A synthetic phosphorylated peptide around T156 of human AP2M1 (NP_001020376.1). |
| **Gene ID** | 1173 |
| **Gene Symbol** | AP2M1 |
| **Dilution range** | WB 1:500 - 1:2000 |
| **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 |

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| **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 |