10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# AP1M1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12036c

## Product Information

| | |
|---|---|
| **Application** | IHC-P, IF, WB, IHC-P-Leica, E |
| **Primary Accession** | Q9BXS5 |
| **Other Accession** | Q32Q06, P35585, Q2KJ81, NP_115882.1 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Mouse, Rat, Bovine, Canine, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB31938 |
| **Calculated MW** | 48587 |
| **Antigen Region** | 199-227 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 8907 |
| **Other Names** | AP-1 complex subunit mu-1, AP-mu chain family member mu1A, Adaptor protein complex AP-1 subunit mu-1, Adaptor-related protein complex 1 subunit mu-1, Clathrin assembly protein complex 1 mu-1 medium chain 1, Clathrin coat assembly protein AP47, Clathrin coat-associated protein AP47, Golgi adaptor HA1/AP1 adaptin mu-1 subunit, Mu-adaptin 1, Mu1A-adaptin, AP1M1, CLTNM |
| **Target/Specificity** | This AP1M1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 199-227 amino acids from the Central region of human AP1M1. |
| **Dilution** | IHC-P~~1:100~500 IF~~1:10~50 WB~~1:1000 IHC-P-Leica~~1:500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | AP1M1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

| | |
|---|---|
| **Name** | AP1M1 |
| **Synonyms** | CLTNM |
| **Function** | Subunit of clathrin-associated adaptor protein complex 1 that plays a role in protein sorting in the trans-Golgi network (TGN) and endosomes. The AP complexes mediate the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules. |
| **Cellular Location** | Golgi apparatus. Cytoplasmic vesicle, clathrin- coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side Note=Component of the coat surrounding the cytoplasmic face of coated vesicles located at the Golgi complex |

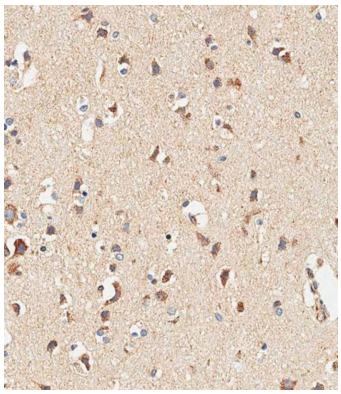
## Background

The protein encoded by this gene is the medium chain of the trans-Golgi network clathrin-associated protein complex AP-1. The other components of this complex are beta-prime-adaptin, gamma-adaptin, and the small chain AP1S1. This complex is located at the Golgi vesicle and links clathrin to receptors in coated vesicles. These vesicles are involved in endocytosis and Golgi processing. Alternatively spliced transcript variants encoding distinct protein isoforms have been found for this gene. [provided by RefSeq].

## References

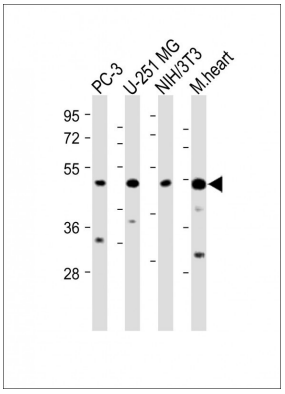

Sawasdee, N., et al. Biochem. Biophys. Res. Commun. 401(1):85-91(2010)
Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009)
Noviello, C.M., et al. J. Virol. 82(3):1249-1258(2008)
Medigeshi, G.R., et al. Traffic 9(1):121-132(2008)
Roeth, J.F., et al. J. Cell Biol. 167(5):903-913(2004)

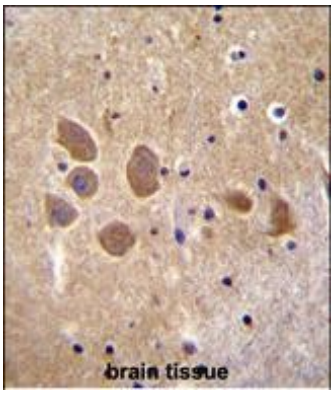

## Images



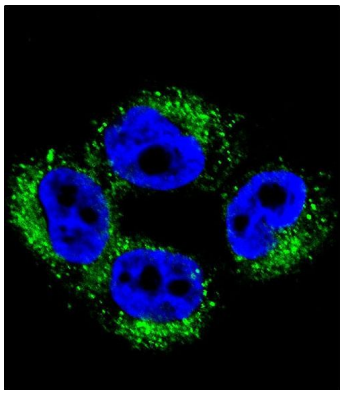
Immunohistochemical analysis of paraffin-embedded human brain tissue using AP12036c performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

All lanes : Anti-AP1M1 Antibody (Center) at 1:2000 dilution Lane 1: PC-3 whole cell lysate Lane 2: U-251 MG whole cell lysate Lane 3: NIH/3T3 whole cell lysate Lane 4: Mouse heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 49 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




AP1M1 Antibody (Center) (Cat. #AP12036c)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of AP1M1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of AP1M1 Antibody (Center)(Cat#AP12036c) with A375 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.