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AP1S1 Antibody (N-Term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5009a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P61966
Other Accession	P61967, Q1JQ98
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB25813
Calculated MW	18733
Antigen Region	5-34

Additional Information

Gene ID	1174
Other Names	AP-1 complex subunit sigma-1A, Adaptor protein complex AP-1 subunit sigma-1A, Adaptor-related protein complex 1 subunit sigma-1A, Clathrin assembly protein complex 1 sigma-1A small chain, Clathrin coat assembly protein AP19, Golgi adaptor HA1/AP1 adaptin sigma-1A subunit, HA1 19 kDa subunit, Sigma 1a subunit of AP-1 clathrin, Sigma-adaptin 1A, Sigma1A-adaptin, AP1S1, AP19, CLAPS1
Target/Specificity	This AP1S1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 5-34 amino acids from the N-terminal region of human AP1S1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	AP1S1 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AP1S1
Synonyms	AP19, CLAPS1
Function	Subunit of clathrin-associated adaptor protein complex 1 that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both 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 membrane; Peripheral membrane protein; Cytoplasmic side. Membrane, clathrin-coated pit. Note=Component of the coat surrounding the cytoplasmic face of coated vesicles located at the Golgi complex
Tissue Location	Widely expressed..

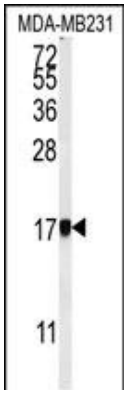
Background

AP1S1 is part of the clathrin coat assembly complex which links clathrin to receptors in coated vesicles. These vesicles are involved in endocytosis and Golgi processing. This protein, as well as beta-prime-adaptin, gamma-adaptin, and the medium (mu) chain AP47, form the AP-1 assembly protein complex located at the Golgi vesicle.

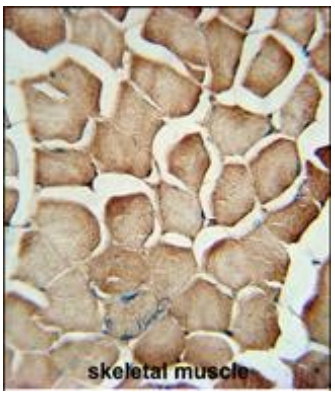
References

Montpetit, A., et al. PLoS Genet. 4 (12), E1000296 (2008)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007)
Leong, W.F., et al. Cell. Microbiol. 8(4):565-580(2006)

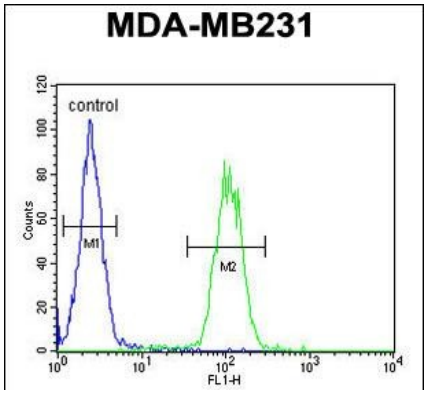
Images



Western blot analysis of AP1S1 Antibody (N-Term)(Cat. #AP5009a) in MDA-MB231 cell line lysates (35ug/lane).AP1S1 (arrow) was detected using the purified Pab.



AP1S1 Antibody (N-Term) (Cat. #AP5009a) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the AP1S1 Antibody (N-Term) for immunohistochemistry. Clinical relevance has not been evaluated.



AP1S1 Antibody (N-Term) (Cat. #AP5009a) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- Effects of secreted frizzled-related protein 1 on proliferation, migration, invasion, and apoptosis of colorectal cancer cells.

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