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

AP3S1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10499a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q92572
Other Accession	Q9DCR2, Q2YDH6, NP_001275.1
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24433
Calculated MW	21732
Antigen Region	1-30

Additional Information

Gene ID	1176
Other Names	AP-3 complex subunit sigma-1, AP-3 complex subunit sigma-3A, Adaptor-related protein complex 3 subunit sigma-1, Clathrin-associated/assembly/adaptor protein, small 3, Sigma-3A-adaptin, Sigma3A-adaptin, Sigma-adaptin 3a, AP3S1, CLAPS3
Target/Specificity	This AP3S1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human AP3S1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	AP3S1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AP3S1

Synonyms	CLAPS3
Function	Part of the AP-3 complex, an adaptor-related complex which is not clathrin-associated. The complex is associated with the Golgi region as well as more peripheral structures. It facilitates the budding of vesicles from the Golgi membrane and may be directly involved in trafficking to lysosomes. In concert with the BLOC-1 complex, AP-3 is required to target cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals.
Cellular Location	Golgi apparatus. Cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Note=Component of the coat surrounding the cytoplasmic face of coated vesicles located at the Golgi complex
Tissue Location	Present in all adult tissues examined.

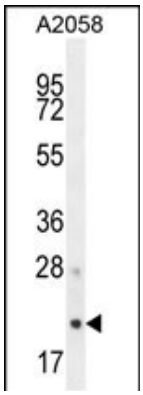
Background

Part of the AP-3 complex, an adapter-related complex which is not clathrin-associated. The complex is associated with the Golgi region as well as more peripheral structures. It facilitates the budding of vesicles from the Golgi membrane and may be directly involved in trafficking to lysosomes.

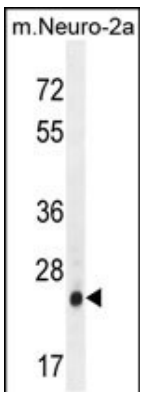
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Zhou, J.B., et al. Med. Sci. Monit. 16 (6), BR179-BR183 (2010) :
Lefrancois, S., et al. Dev. Cell 7(4):619-625(2004)
Salazar, G., et al. Mol. Biol. Cell 15(2):575-587(2004)
Nie, Z., et al. Dev. Cell 5(3):513-521(2003)

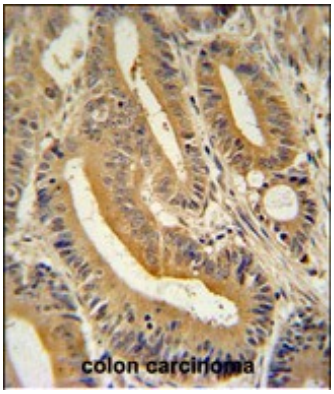
Images



AP3S1 Antibody (N-term) (Cat. #AP10499a) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the AP3S1 antibody detected the AP3S1 protein (arrow).



AP3S1 Antibody (N-term) (Cat. #AP10499a) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane).This demonstrates the AP3S1 antibody detected the AP3S1 protein (arrow).



AP3S1 antibody (N-term) (Cat. #AP10499a) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the AP3S1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Citations

- Functional analysis and validation of oncodrive gene AP3S1 in ovarian cancer through filtering of mutation data from whole-exome sequencing