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AP4B1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17275c

Product Information

Application	WB, E
Primary Accession	Q9Y6B7
Other Accession	Q9WV76, NP_006585.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37295
Calculated MW	83260
Antigen Region	492-520

Additional Information

Gene ID	10717
Other Names	AP-4 complex subunit beta-1, AP-4 adaptor complex subunit beta, Adaptor-related protein complex 4 subunit beta-1, Beta subunit of AP-4, Beta4-adaptin, AP4B1
Target/Specificity	This AP4B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 492-520 amino acids from the Central region of human AP4B1.
Dilution	WB~~1:1000 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	AP4B1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AP4B1 (HGNC:572)
Function	Component of the adaptor protein complex 4 (AP-4). Adaptor protein

	complexes are vesicle coat components involved both in vesicle formation and cargo selection. They control the vesicular transport of proteins in different trafficking pathways (PubMed:10066790, PubMed:10436028). AP-4 forms a non clathrin-associated coat on vesicles departing the trans-Golgi network (TGN) and may be involved in the targeting of proteins from the trans-Golgi network (TGN) to the endosomal-lysosomal system. It is also involved in protein sorting to the basolateral membrane in epithelial cells and the proper asymmetric localization of somatodendritic proteins in neurons. AP-4 is involved in the recognition and binding of tyrosine-based sorting signals found in the cytoplasmic part of cargos, but may also recognize other types of sorting signal (Probable).
Cellular Location	Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein
Tissue Location	Widely expressed..

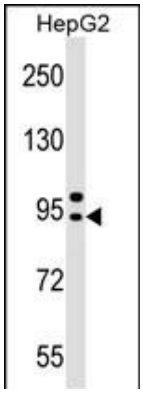
Background

The heterotetrameric adaptor protein (AP) complexes sort integral membrane proteins at various stages of the endocytic and secretory pathways. AP4 is composed of 2 large chains, beta-4 (AP4B1) and epsilon-4 (AP4E1; MIM 607244), a medium chain, mu-4 (AP4M1; MIM 602296), and a small chain, sigma-4 (AP4S1; MIM 607243).

References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Cayrol, C., et al. Biochem. Biophys. Res. Commun. 298(5):720-730(2002)
Takatsu, H., et al. Biochem. Biophys. Res. Commun. 284(4):1083-1089(2001)
Hirst, J., et al. Mol. Biol. Cell 10(8):2787-2802(1999)
Dell'Angelica, E.C., et al. J. Biol. Chem. 274(11):7278-7285(1999)

Images



AP4B1 Antibody (Center) (Cat. #AP17275c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the AP4B1 antibody detected the AP4B1 protein (arrow).