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

AP4B1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP17275c

Specification

AP4B1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9Y6B7

AP4B1 Antibody (Center) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AP4B1 Antibody (Center) Blocking Peptide - 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..

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AP4B1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

AP4B1 Antibody (Center) Blocking Peptide - Images

AP4B1 Antibody (Center) Blocking Peptide - Background

The heterotetrameric adaptor protein (AP) complexes sortintegral membrane proteins at various stages of the endocytic andsecretory 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; MIM607243).

AP4B1 Antibody (Center) Blocking Peptide - 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)