

**AP4B1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17275c****Specification**

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**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:<a href="http://www.uniprot.org/citations/10066790" target="\_blank">10066790</a>, PubMed:<a href="http://www.uniprot.org/citations/10436028" target="\_blank">10436028</a>). 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..

**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 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).

**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)