

AP3B2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16877a**Specification**

AP3B2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q13367](#)**AP3B2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 8120**Other Names**

AP-3 complex subunit beta-2, Adaptor protein complex AP-3 subunit beta-2, Adaptor-related protein complex 3 subunit beta-2, Beta-3B-adaptin, Clathrin assembly protein complex 3 beta-2 large chain, Neuron-specific vesicle coat protein beta-NAP, AP3B2

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.

AP3B2 Antibody (N-term) Blocking Peptide - Protein Information**Name** AP3B2**Function**

Subunit of non-clathrin- and clathrin-associated adaptor protein complex 3 (AP-3) 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. AP-3 appears to be involved in the sorting of a subset of transmembrane proteins targeted to lysosomes and lysosome-related organelles. 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

Cytoplasmic vesicle, clathrin-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Golgi apparatus Note=Component of the coat surrounding the cytoplasmic face of coated vesicles located at the Golgi complex.

Tissue Location

Isoform 1 expression is specific to nervous system. Expressed in nerve terminal and cell body, and is associated with nerve-terminal vesicles. Expression seen in Purkinje cells, cortical neurons,

neuroectodermal tumors and graded in cerebral cortex (deeper layers exhibit stronger expression) (PubMed:1851215). Isoform 2 is expressed at high levels in brain and testis (PubMed:17453999)

AP3B2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

AP3B2 Antibody (N-term) Blocking Peptide - Images

AP3B2 Antibody (N-term) Blocking Peptide - Background

Adaptor protein-3 (AP3) is a heterotetrameric vesicle-coatprotein complex. Some AP3 subunits are ubiquitously expressed, whereas others are expressed exclusively in neurons. The neuron-specific AP3 complex, which includes AP3B2, is thought to serve neuron-specific functions such as neurotransmitter release (Grabner et al., 2006 [PubMed 16788073]).

AP3B2 Antibody (N-term) Blocking Peptide - References

Nicolas, E., et al. Eur. J. Hum. Genet. 18(10):1107-1113(2010) Hashimoto, R., et al. Neurosci. Res. 65(1):113-115(2009) Chen, C., et al. DNA Seq. 18(3):165-168(2007) Grabner, C.P., et al. Proc. Natl. Acad. Sci. U.S.A. 103(26):10035-10040(2006) Dubois, T., et al. Biochem. Biophys. Res. Commun. 301(2):502-508(2003)