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APBA1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8593c

Specification

APBA1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q02410

APBA1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 320

Other Names
Amyloid beta A4 precursor protein-binding family A member 1, Adapter protein X11alpha, Neuron-specific X11 protein, Neuronal Munc18-1-interacting protein 1, Mint-1, APBA1, MINT1, X11

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8593c was selected from the Center region of human APBA1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

APBA1 Antibody (Center) Blocking Peptide - Protein Information

APBA1 Antibody (Center) Blocking Peptide - Background

APBA1 is a member of the X11 protein family. It is a neuronal adapter protein that interacts with the Alzheimer's disease amyloid precursor protein (APP). It stabilizes APP and inhibits production of proteolytic APP fragments including the A beta peptide that is deposited in the brains of Alzheimer's disease patients. This protein is believed to be involved in signal transduction processes. It is also regarded as a putative vesicular trafficking protein in the brain that can form a complex with the potential to couple synaptic vesicle exocytosis to neuronal cell adhesion.

APBA1 Antibody (Center) Blocking Peptide - References

van der Geer,P. et.al., Trends Biochem. Sci. 20 (7), 277-280 (1995)Xie,Z., et.al., J. Biol. Chem. 280 (15), 15413-15421 (2005)Jacobs,E.H., et.al., Neuroscience 138 (2), 511-522 (2006)

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Name APBA1

Synonyms MINT1, X11

Function
Putative function in synaptic vesicle exocytosis by binding to Munc18-1, an essential component of the synaptic vesicle exocytotic machinery. May modulate processing of the amyloid-beta precursor protein (APP) and hence formation of APP-beta. Component of the LIN-10-LIN-2-LIN-7 complex, which associates with the motor protein KIF17 to transport vesicles containing N-methyl-D-aspartate (NMDA) receptor subunit NR2B along microtubules (By similarity).

Cellular Location
Cytoplasm. Cytoplasm, perinuclear region. Nucleus. Note=Only about 5% of the protein is located in the nucleus

Tissue Location
Brain and spinal cord. Isoform 2 is expressed in testis and brain, but not detected in lung, liver or spleen

APBA1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides