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APBA2 Antibody
Catalog # ASC11229

Specification

APBA2 Antibody - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q99767
Other Accession	NP_005494, 22035550
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**APBA2 antibody can be used for detection of APBA2 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL. For immunofluorescence start at 20 µg/mL.**

APBA2 Antibody - Additional Information

Gene ID	**321**

Target/Specificity
APBA2;

Reconstitution & Storage
APBA2 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
APBA2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

APBA2 Antibody - Protein Information

Name APBA2

Synonyms MINT2, X11L

Function
Putative function in synaptic vesicle exocytosis by binding to STXBP1, 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.

Tissue Location
Brain.

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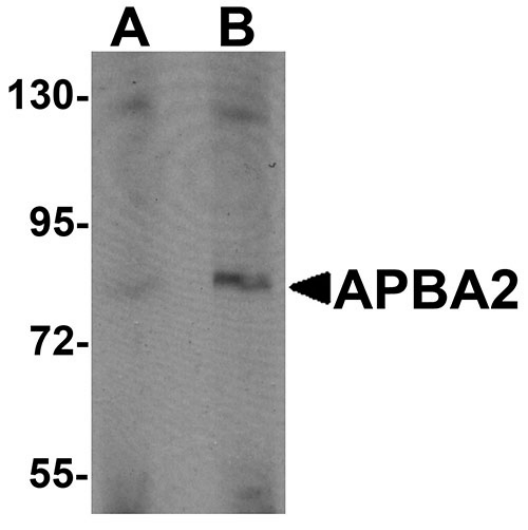
APBA2 Antibody - Protocols

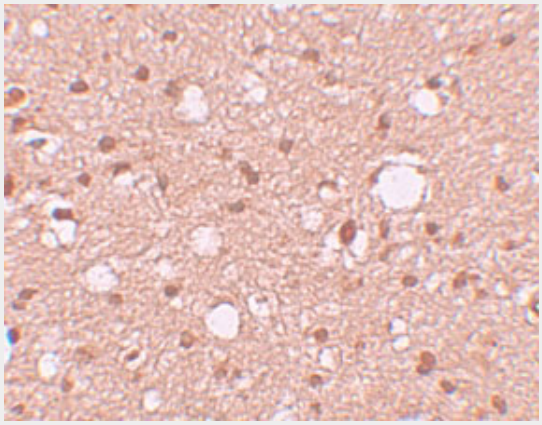
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

APBA2 Antibody - Images



Western blot analysis of APBA2 in human brain tissue lysate with APBA2 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of APBA2 in human brain tissue with APBA2 antibody at 10 µg/mL.

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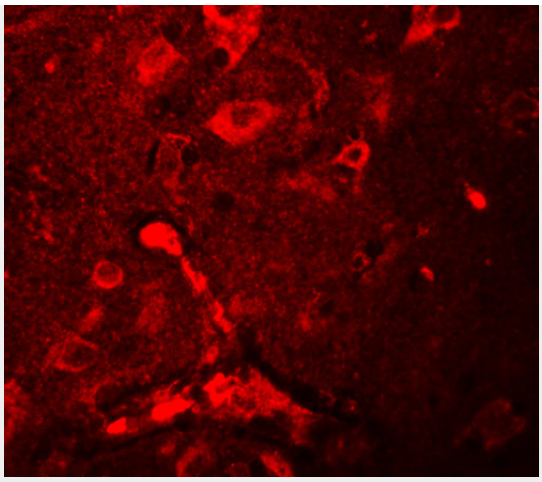

Immunofluorescence of APBA2 in human brain tissue with APBA2 antibody at 20 µg/mL.

APBA2 Antibody - Background

APBA2 Antibody: APBA2, a member of the X11 protein family, is a phosphotyrosine-binding domain protein and is a neuronal adapter protein that interacts with amyloid precursor protein (APP) and neuritic plaques in the brains of patients with Alzheimer's disease. It stabilizes APP and inhibits production of proteolytic APP fragments including the Abeta peptide that is deposited in the brains of Alzheimer's disease patients. APBA2 is believed to be involved in signal transduction processes and 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. Recent reports suggest that it may also be a candidate gene for autism.

APBA2 Antibody - References

Blanco G, Irving NG, Brown SDM, et al. Mapping of the human and murine X11-like genes (APBA2 and Apba2), the murine Fe65 gene (Apbb1), and the human Fe65-like gene (APBB2): genes encoding phosphotyrosine-binding domain proteins that interact with the Alzheimer’s disease amyloid precursor protein. Mamm. Gen.1988; 9:473-5.
Mint2/X11-like colocalizes with the Alzheimer’s disease amyloid precursor protein and is associated with neuritic plaques in Alzheimer’s disease. Eur. J. Neurosci.1999; 11:1988-94.
Lee JH, Lau KF, Perkinton MS, et al. The neuronal adaptor protein X11beta reduces amyloid beta-protein levels and amyloid plaque formation in the brains of transgenic mice. J. Biol. Chem.2004; 279:49099-104.
Lee HW, Park JW, Sandagsuren EU, et al. Overexpression of APP stimulates basal and constitutive exocytosis in PC12 cells. Neurosci. Lett.2008; 436:245-9.