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

ANKS1B Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59142

Specification

ANKS1B Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, E**
Primary Accession	Q7Z6G8
Reactivity	**Rat, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**138 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human ANKS1B/AIDA1**
Epitope Specificity	**851-1000/1248**

Purity
affinity purified by Protein A

Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Cytoplasm; Nucleus; Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cell projection, dendritic spine. Nucleus. Nucleus, Cajal body. The synaptic localization requires DLG4 interaction. Translocation to the nucleus in response to stimulation of NMDA receptors (NMDARs) in a calcium-independent manner and Nucleus. The interaction with APP causes its partial exclusion from the nucleus, when APP is overexpressed.**
SIMILARITY	**Contains 7 ANK repeats. Contains 1 PID domain. Contains 2 SAM (sterile alpha motif) domains.**
SUBUNIT	**Isoform 3 interacts with DLG4. Interacts with EPHA8. Isoform 2 interacts with COIL. Isoform 4 interacts with APP and EPHA8. Isoform 6 interacts with EPHA8.**
Post-translational modifications	**Isoform 3 nuclear translocation requires an NMDAR-dependent proteolytic cleavage (By similarity).**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
The β-Amyloid protein precursor (AbPP) is a widely expressed transmembrane protein that is processed into the b-Amyloid (Ab) peptide, which accumulates in insoluble plaques in the brain of Alzheimer’s disease patients and AbPP intracellular domain (AID). AID may function as a pro-apoptotic peptide, a regulator of calcium homeostasis and a molecule involved in transcriptional regulation. The AID associated protein 1 (AIDA-1) is highly expressed in the brain

and is regulated by AbPP. It interacts with AbPP to play a role in brain development. AIDA-1 also interacts with coilin in Cajal bodies to regulate pre-mRNA splicing.

ANKS1B Polyclonal Antibody - Additional Information

Gene ID 56899

Other Names
Ankyrin repeat and sterile alpha motif domain-containing protein 1B, Amyloid-beta protein intracellular domain-associated protein 1, AIDA-1, E2A-PBX1-associated protein, EB-1, ANKS1B

Target/Specificity
Highly expressed in marrow from patients with pre-B ALL associated with the t(1;19) translocation. Strongly expressed in brain and testis. Expressed in fetal brain. Isoform 4 is highly expressed in brain (at protein level). Isoform 6 is expressed in brain and several cancer cell lines.

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

ANKS1B Polyclonal Antibody - Protein Information

Name ANKS1B

Function
Isoform 2 may participate in the regulation of nucleoplasmic coilin protein interactions in neuronal and transformed cells. Isoform 4 may play a role as a modulator of APP processing. Overexpression can down-regulate APP processing.

Cellular Location
Cytoplasm [Isoform 3]: Postsynaptic density. Cell projection, dendritic spine. Nucleus. Nucleus, Cajal body. Note=The synaptic localization requires DLG4 interaction. Translocation to the nucleus in response to stimulation of NMDA receptors (NMDARs) in a calcium-independent manner (By similarity). [Isoform 6]: Nucleus.

Tissue Location
Highly expressed in marrow from patients with pre-B ALL associated with the t(1;19) translocation. Strongly expressed in brain and testis. Expressed in fetal brain. Isoform 4 is highly expressed in brain (at protein level). Isoform 6 is expressed in brain and several cancer cell lines.

ANKS1B Polyclonal 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

ANKS1B Polyclonal Antibody - Images