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Junctophilin 3 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP2715b

Specification

Junctophilin 3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9ET77

Junctophilin 3 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 57340

Other Names
Junctophilin-3, JP-3, Junctophilin type 3, Jph3, Jp3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2715b was selected from the C-term region of human Junctophilin 3. 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.

Junctophilin 3 Antibody (C-term) Blocking Peptide - Protein Information

Name Jph3

Synonyms Jp3

Function
Junctophilins contribute to the formation of junctional membrane complexes (JMCs) which link the plasma membrane with the endoplasmic or sarcoplasmic reticulum in excitable cells. Provides a structural foundation for functional cross-talk between the cell surface and intracellular calcium release channels. JPH3 is brain- specific and appears to have an active role in certain neurons involved in motor coordination and memory.

Cellular Location
Cell membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Single-pass type IV membrane protein Note=Localized predominantly on the plasma membrane. The transmembrane domain is anchored in endoplasmic reticulum membrane, while the N- terminal

part associates with the plasma membrane

Tissue Location
Specifically expressed in brain. Highest levels in the olfactory tubercle, caudate putamen, nucleus accumbens, hippocampal formation, piriform cortex and cerebellar cortex. Expressed in disctete neurons sites. In hippocampal formation, expressed in dendrites of hippocampal pyramidal and denate granule cells. In cerebellum, it is highly expressed in Purkinge cells, while it is weakly expressed in granular cells.

Junctophilin 3 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Junctophilin 3 Antibody (C-term) Blocking Peptide - Images

Junctophilin 3 Antibody (C-term) Blocking Peptide - Background

Junctional complexes between the plasma membrane and endoplasmic/sarcoplasmic reticulum are a common feature of all excitable cell types and mediate cross talk between cell surface and intracellular ion channels. Junctophilin 3 is a component of junctional complexes and is composed of a C-terminal hydrophobic segment spanning the endoplasmic/sarcoplasmic reticulum membrane and a remaining cytoplasmic domain that shows specific affinity for the plasma membrane.

Junctophilin 3 Antibody (C-term) Blocking Peptide - References

Kakizawa,S., EMBO J. 26 (7), 1924-1933 (2007)Moriguchi,S., Proc. Natl. Acad. Sci. U.S.A. 103 (28), 10811-10816 (2006)Nishi,M., Brain Res. Mol. Brain Res. 118 (1-2), 102-110 (2003)Nishi,M., Biochem. Biophys. Res. Commun. 292 (2), 318-324 (2002)