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PANX2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19188b

Product Information

Application	WB, E
Primary Accession	Q96RD6
Other Accession	NP_001153772.1
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39842
Calculated MW	74447
Antigen Region	647-677

Additional Information

Gene ID	56666
Other Names	Pannexin-2, PANX2
Target/Specificity	This PANX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 647-677 amino acids from the C-terminal region of human PANX2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PANX2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PANX2 (HGNC:8600)
Function	Ion channel with a slight anion preference (PubMed: 36973289). Also able to release ATP (PubMed:36869038). Plays a role in regulating neurogenesis and apoptosis in keratinocytes (By similarity).

Cellular Location	Cell membrane; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00351} Golgi apparatus membrane {ECO:0000250|UniProtKB:Q6IMP4}; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00351}. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q6IMP4}; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00351}. Note=Localizes to Golgi apparatus and endoplasmic reticulum in multipotential neural stem and progenitor cells and to plasma membrane in terminally differentiated neurons. {ECO:0000250|UniProtKB:Q6IMP4}

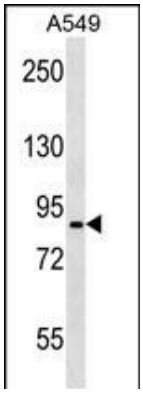
Background

The protein encoded by this gene belongs to the innexin family. Innexin family members are the structural components of gap junctions. This protein and pannexin 1 are abundantly expressed in central nervous system (CNS) and are coexpressed in various neuronal populations. Studies in Xenopus oocytes suggest that this protein alone and in combination with pannexin 1 may form cell type-specific gap junctions with distinct properties. Multiple transcript variants encoding different isoforms have been found for this gene.

References

Ambrosi, C., et al. J. Biol. Chem. 285(32):24420-24431(2010)
Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010)
Oguri, M., et al. Am. J. Hypertens. 23(1):70-77(2010)
Lai, C.P., et al. Oncogene 28(49):4402-4408(2009)
Wu, C., et al. Proteomics 7(11):1775-1785(2007)

Images



PANX2 Antibody (C-term) (Cat. #AP19188b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the PANX2 antibody detected the PANX2 protein (arrow).