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PRX Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP11692c

Specification

PRX Antibody (Center) Blocking peptide - Product Information

Primary Accession	Q9BXM0
Other Accession	NP_870998.2, NP_066007.1

PRX Antibody (Center) Blocking peptide - Additional Information

Gene ID 57716

Other Names
Periaxin, PRX, KIAA1620

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.

PRX Antibody (Center) Blocking peptide - Protein Information

Name PRX

Synonyms KIAA1620

Function
Scaffolding protein that functions as part of a dystroglycan complex in Schwann cells, and as part of EZR and AHNAK-containing complexes in eye lens fiber cells. Required for the maintenance of the peripheral myelin sheath that is essential for normal transmission of nerve impulses and normal perception of sensory stimuli. Required for normal transport of MBP mRNA from the perinuclear to the paranodal regions. Required for normal remyelination after nerve injury. Required for normal elongation of Schwann cells and normal length of the internodes between the nodes of Ranvier. The demyelinated nodes of Ranvier permit saltatory transmission of nerve impulses; shorter internodes cause slower transmission of nerve impulses. Required for the formation of appositions between the abaxonal surface of the myelin sheath and the Schwann cell plasma membrane; the Schwann cell cytoplasm is restricted to regions between these appositions. Required for the formation of Cajal bands and of Schmidt-Lanterman incisures that correspond to short, cytoplasm-filled regions on myelinated nerves. Recruits DRP2 to the Schwann cell plasma membrane. Required for normal protein composition of the eye lens fiber cell plasma membrane and normal eye lens fiber cell morphology.

Cellular Location
[Isoform 1]: Cell membrane {ECO:0000250|UniProtKB:O55103}; Peripheral membrane protein {ECO:0000250|UniProtKB:O55103}; Cytoplasmic side {ECO:0000250|UniProtKB:O55103}. Nucleus Cytoplasm. Note=Detected in the Schwann cell nucleus prior to the onset of myelination. Detected in Schwann cells at periaxonal myelin membranes. Associated with the cell membrane during myelination. {ECO:0000250|UniProtKB:O55103} Cell membrane {ECO:0000250|UniProtKB:O55103}. Cell junction {ECO:0000250|UniProtKB:O55103}. Note=Colocalizes with ACTB at tricellular junctions between eye lens fiber cells {ECO:0000250|UniProtKB:O55103}

Tissue Location
Detected in spinal cord (PubMed:11133365). Isoform 1 and isoform 2 are found in sciatic nerve and Schwann cells (PubMed:11157804).

PRX Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

PRX Antibody (Center) Blocking peptide - Images

PRX Antibody (Center) Blocking peptide - Background

This gene encodes a protein involved in peripheral nervemyelin upkeep. The encoded protein contains 2 PDZ domains whichwere named after PSD95 (post synaptic density protein), DlgA(Drosophila disc large tumor suppressor), and ZO1 (a mammaliantight junction protein). Two alternatively spliced transcriptvariants have been described for this gene which encode differentprotein isoforms and which are targeted differently in the Schwanncell. Mutations in this gene cause Charcot-Marie-Tooth neuoropathy,type 4F and Dejerine-Sottas neuropathy.

PRX Antibody (Center) Blocking peptide - References

Benson, B., et al. Laryngoscope 120(2):291-296(2010)Kabzinska, D., et al. Med Wieku Rozwoj 13(2):146-153(2009)Auer-Grumbach, M., et al. Neuropediatrics 39(1):33-38(2008)Wu, C., et al. Proteomics 7(11):1775-1785(2007)Olsen, J.V., et al. Cell 127(3):635-648(2006)