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

Mouse Pxk Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14159c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8BX57
Other Accession	Q4FZZ1, Q7Z7A4, NP_663433.2, NP_840063.1
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34872
Calculated MW	65231
Antigen Region	164-193

Additional Information

Gene ID	218699
Other Names	PX domain-containing protein kinase-like protein, Modulator of Na, K-ATPase, MONaKA, Pxk {ECO:0000312|MGI:MGI:1289230}
Target/Specificity	This Mouse Pxk antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 164-193 amino acids from the Central region of mouse Pxk.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	Mouse Pxk Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Pxk {ECO:0000312|MGI:MGI:1289230}
Function	Binds to and modulates brain Na,K-ATPase subunits ATP1B1 and ATP1B3 and may thereby participate in the regulation of electrical excitability and

	synaptic transmission. May not display kinase activity.
Cellular Location	Cytoplasm. Cell membrane; Peripheral membrane protein. Note=Also associates with the plasma membrane
Tissue Location	Isoform 1 is present in all tissues examined. Isoform 2 is found in all tissues except skeletal muscle and very low levels in spleen. Both isoforms are widely expressed throughout the nervous system however levels of isoform 2 are higher in purified hippocampal and cortical neurons whereas glial cells express more isoform 1 than isoform 2.

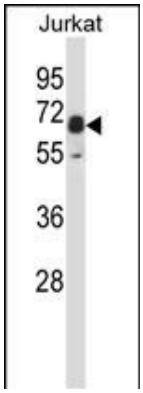
Background

Pxk binds to and modulates brain Na,K-ATPase subunits ATP1B1 and ATP1B3 and may thereby participate in the regulation of electrical excitability and synaptic transmission. May not display kinase activity.

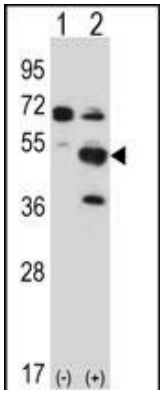
References

Mao, H., et al. J. Neurosci. 25(35):7934-7943(2005)
Zambrowicz, B.P., et al. Proc. Natl. Acad. Sci. U.S.A. 100(24):14109-14114(2003)
Stryke, D., et al. Nucleic Acids Res. 31(1):278-281(2003)

Images

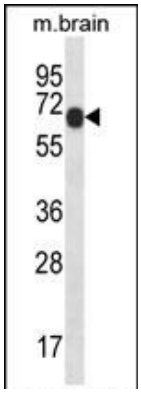


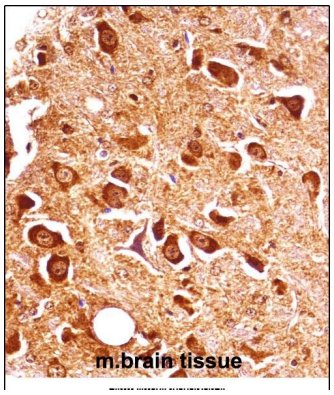
Mouse Pxk Antibody (Center) (Cat. #AP14159c) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the Pxk antibody detected the Pxk protein (arrow).



Western blot analysis of Pxk (arrow) using rabbit polyclonal Mouse Pxk Antibody (Center) (Cat. #AP14159c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the Pxk gene.

Mouse Pxk Antibody (Center) (Cat. #AP14159c) western blot analysis in mouse brain tissue lysates (35ug/lane).This demonstrates the Pxk antibody detected the Pxk protein (arrow).





Mouse Pxk Antibody (Center) (AP14159c)immunohistochemistry analysis in formalin fixed and paraffin embedded mouse brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Mouse Pxk Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

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