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INPP5B Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10490b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P32019
Other Accession	NP_005531.2
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27636
Calculated MW	112852
Antigen Region	950-979

Additional Information

Gene ID	3633
Other Names	Type II inositol 1, 5-trisphosphate 5-phosphatase, 75 kDa inositol polyphosphate-5-phosphatase, Phosphoinositide 5-phosphatase, 5PTase, INPP5B, OCRL2
Target/Specificity	This INPP5B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 950-979 amino acids from the C-terminal region of human INPP5B.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	INPP5B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	INPP5B
Synonyms	OCRL2

Function	Hydrolyzes phosphatidylinositol 4,5-bisphosphate (PtIns(4,5)P2) and the signaling molecule phosphatidylinositol 1,4,5- trisphosphate (PtIns(1,4,5)P3), and thereby modulates cellular signaling events.
Cellular Location	Cytoplasm, cytosol. Endoplasmic reticulum-Golgi intermediate compartment. Early endosome membrane. Membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic vesicle, phagosome membrane {ECO:0000250|UniProtKB:Q8K337}. Golgi apparatus
Tissue Location	Platelets.

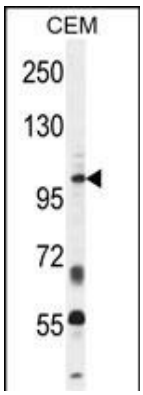
Background

Cellular calcium signaling is controlled by the production of inositol phosphates (IPs) by phospholipase C in response to extracellular signals. The IP signaling molecules are inactivated by a family of inositol polyphosphate-5-phosphatases (5-phosphatases). INPP5B encodes the type II 5-phosphatase. The protein is localized to the cytosol and mitochondria, and associates with membranes through an isoprenyl modification near the C-terminus. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq].

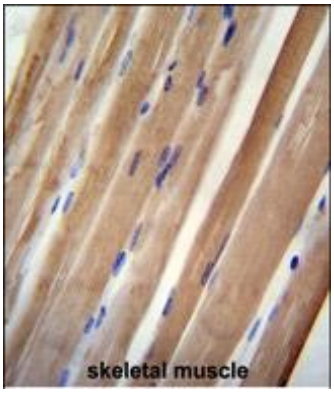
References

Coon, B.G., et al. Hum. Mol. Genet. 18(23):4478-4491(2009)
Mao, Y., et al. EMBO J. 28(13):1831-1842(2009)
Williams, C., et al. J. Cell. Sci. 120 (PT 22), 3941-3951 (2007) :
Speed, C.J., et al. Eur. J. Biochem. 234(1):216-224(1995)
Janne, P.A., et al. Genomics 28(2):280-285(1995)

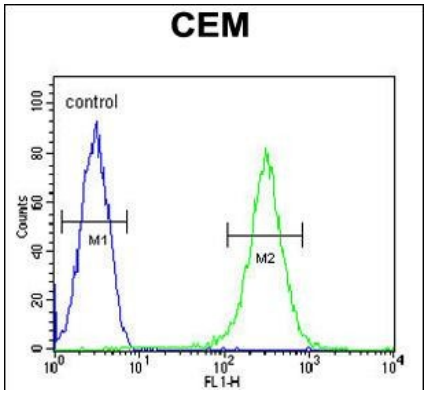
Images



INPP5B Antibody (C-term) (Cat. #AP10490b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the INPP5B antibody detected the INPP5B protein (arrow).



INPP5B antibody (C-term) (Cat. #AP10490b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of the INPP5B antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



INPP5B Antibody (C-term) (Cat. #AP10490b) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.