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INPP4B Rabbit pAb

Catalog # AP100137

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	O15327
Other Accession	O15327
Predicted	Human, Mouse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	104738
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human INPP4B
Epitope Specificity	801-900/924
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the inositol-3,4-bisphosphate 4-phosphatase family. Contains 1 C2 domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	INPP4B encodes the inositol polyphosphate 4-phosphatase type II, one of the enzymes involved in phosphatidylinositol signaling pathways. This enzyme removes the phosphate group at position 4 of the inositol ring from inositol 3,4-bisphosphate. There is limited data to suggest that the human type II enzyme is subject to alternative splicing, as has been established for the type I enzyme. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	8821
Other Names	E130107I17Rik; INP4B_HUMAN; INPP4B; Type II inositol 3, 4-bisphosphate 4-phosphatase; INP4B_MOUSE; Inositol polyphosphate 4-phosphatase type II; 3.1.3.66; INP4B_RAT; inositol polyphosphate-4-phosphatase type II B; inositol polyphosphate-4-phosphatase, type II, 105kD; inositol polyphosphate-4-phosphatase, type II, 105kDa
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	INPP4B
Function	Catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate and inositol 3,4-trisphosphate (PubMed:24070612, PubMed:24591580). Plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3,4-bisphosphate in membrane ruffles (PubMed:24591580). The lipid phosphatase activity is critical for tumor suppressor function. Antagonizes the PI3K-AKT/PKB signaling pathway by dephosphorylating phosphoinositides and thereby modulating cell cycle progression and cell survival (PubMed:19647222, PubMed:24070612).
Tissue Location	Widely expressed with highest levels occurring in the skeletal muscle and heart.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.