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INPP4B Recombinant Rabbit mAb

Catalog # AP100154

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O15327
Other Accession	O15327
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	104738
Physical State	Liquid
Immunogen	A synthesized peptide derived from human INPP4B
Epitope Specificity	1-54/924
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% 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	Catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate and inositol 3,4-trisphosphate. Plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3,4-bisphosphate in membrane ruffles.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

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	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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'.