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PIP5K2B Rabbit pAb

Catalog # AP97183

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P78356
Other Accession	P78356
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47378
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PIP5K2B
Epitope Specificity	101-200/416
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 PIPK domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene catalyzes the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. This gene is a member of the phosphatidylinositol-5-phosphate 4-kinase family. The encoded protein sequence does not show similarity to other kinases, but the protein does exhibit kinase activity. Additionally, the encoded protein interacts with p55 TNF receptor. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	8396
Other Names	PI5P4KB; PIP5K2B; PIP5KIIB; PIP5KIIbeta; PIP5P4KB; PI5P4Kbeta; c11; XELAEV_18043192mg; pip4k2b; PI42B_HUMAN; 1-phosphatidylinositol 5-phosphate 4-kinase 2-beta; Diphosphoinositide kinase 2-beta; Phosphatidylinositol 5-phosphate 4-kinase type II beta (PI(5)P 4-kinase type II beta | PIP4KII-beta); PtdIns(5)P-4-kinase isoform 2-beta; 2.7.1.149; PI42B_MOUSE; PI42B_RAT; Phosphatidylinositol-phosphate kinase IIgamma (PIPKIIgamma); phosphatidylinositol-5-phosphate 4-kinase type 2 beta; phosphatidylinositol-4-phosphate 5-kinase, type II, beta; phosphatidylinositol-5-phosphate 4-kinase, type II, beta
Dilution	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	PIP4K2B (HGNC:8998)
Synonyms	PIP5K2B
Function	Participates in the biosynthesis of phosphatidylinositol 4,5- bisphosphate (PubMed:26774281, PubMed:9038203). Preferentially utilizes GTP, rather than ATP, for PI(5)P phosphorylation and its activity reflects changes in direct proportion to the physiological GTP concentration (PubMed:26774281). Its GTP-sensing activity is critical for metabolic adaptation (PubMed:26774281). PIP4Ks negatively regulate insulin signaling through a catalytic-independent mechanism. They interact with PIP5Ks and suppress PIP5K-mediated PtdIns(4,5)P2 synthesis and insulin-dependent conversion to PtdIns(3,4,5)P3 (PubMed:31091439).
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Nucleus. Cytoplasm Note=Associated with the plasma membrane and the endoplasmic reticulum
Tissue Location	Highly expressed in brain, heart, pancreas, skeletal muscle and kidney. Detected at lower levels in placenta, lung and liver.

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