

Product datasheet for **TA379962**

PIP5K1 beta (PIP5K1B) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	WB,1:500 - 1:2000 IF,1:50 - 1:200
Reactivity:	Human, Mouse, Rat
Modifications:	Unmodified
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 190-470 of human PIP5K1B (NP_003549.1).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	56kDa/61kDa/62kDa
Gene Name:	phosphatidylinositol-4-phosphate 5-kinase type 1 beta
Database Link:	Entrez Gene 8395 Human O14986



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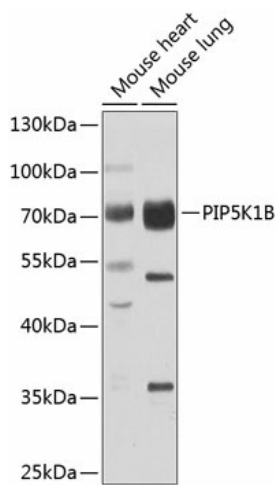
Background:

Catalyzes the phosphorylation of phosphatidylinositol 4-phosphate (PtdIns(4P)/PI4P to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5P2)/PIP2, a lipid second messenger that regulates several cellular processes such as signal transduction, vesicle trafficking, actin cytoskeleton dynamics, cell adhesion, and cell motility (By similarity. PtdIns(4,5P2 can directly act as a second messenger or can be utilized as a precursor to generate other second messengers: inositol 1,4,5-trisphosphate (IP3, diacylglycerol (DAG or phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5P3)/PIP3 (By similarity. Mediates RAC1-dependent reorganization of actin filaments. Contributes to the activation of phospholipase PLD2. Together with PIP5K1A, is required, after stimulation by G-protein coupled receptors, for the synthesis of IP3 that will induce stable platelet adhesion (By similarity.

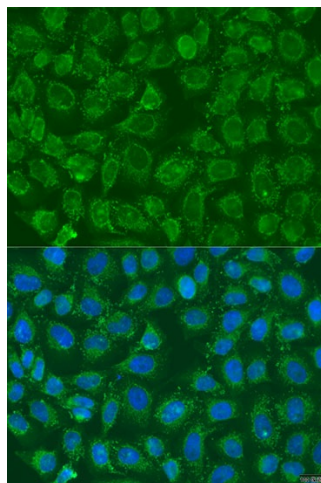
Synonyms:

MSS4; OTTHUMP00000021423; PIP5K1beta; STM7

Product images:



Western blot analysis of extracts of various cell lines, using PIP5K1B antibody (TA379962) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 10s.



Immunofluorescence analysis of U2OS cells using PIP5K1B antibody (TA379962) at dilution of 1:100. Blue: DAPI for nuclear staining.