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Datasheet for ABIN7318894 PIP4K2A Protein (His tag)

Overview

Quantity:	50 µg
Target:	PIP4K2A
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIP4K2A protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PIP4K2A Protein (His Tag)
Sequence:	Met 1-Thr406
Characteristics:	Recombinant Human Phosphatidylinositol 5-phosphate 4-kinase type-2 alpha is produced by our Mammalian expression system and the target gene encoding Met1-Thr406 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	PIP4K2A
Alternative Name:	PIP4K2A (PIP4K2A Products)
Background:	Background: Phosphatidylinositol 5-phosphate 4-kinase type-2 alpha (PIP4K2A) is a member of the phosphatidylinositol-4-phosphate 5-kinase family. It contains 1 PIPK domain and is

Target Details

expressed ubiquitously, with high levels in the brain. It catalyzes the phosphorylation of phosphatidylinositol 5-phosphate (PtdIns5P) on the fourth hydroxyl of the myo-inositol ring, to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P₂). It may exert its function by regulating the levels of PtdIns5P, which functions in the cytosol by increasing AKT activity and in the nucleus signals through ING2. It may regulate the pool of cytosolic PtdIns5P in response to the activation of tyrosine phosphorylation, negatively regulate insulin-stimulated glucose uptake by lowering the levels of PtdIns5P. It also involved in thrombopoiesis, and the terminal maturation of megakaryocytes and regulation of their size.

Synonym: 1-phosphatidylinositol 5-phosphate 4-kinase 2-alpha,Diphosphoinositide kinase 2-alpha,PIP5KIII,Phosphatidylinositol 5-phosphate 4-kinase type II alpha,PtdIns(4)P-5-kinase B isoform,PtdIns(4)P-5-kinase C isoform,PtdIns(5)P-4-kinase isoform 2-alpha

Molecular Weight: 47.3 kDa

UniProt: [P48426](#)

Pathways: [Inositol Metabolic Process](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB,150 mM NaCl, pH 7.4.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.