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Datasheet for ABIN6700372 **PIKFYVE Protein (GST tag)**

Overview

Quantity:	20 µg
Target:	PIKFYVE
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIKFYVE protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	PIP5K3 recombinant protein-GST fusion protein
Purification:	Recombinant human PIP5K3 (1493-end) was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >75% by densitometry.
Purity:	>75%

Target Details

Target:	PIKFYVE
Alternative Name:	PIKFYVE (PIKFYVE Products)
Background:	Synonyms: PIKFYVE, CFD, FAB1, PIP5K, FLJ37746, KIAA0981, MGC40423, 1-phosphatidylinositol 3-phosphate 5-kinase, Phosphatidylinositol 3-phosphate 5-kinase, FYVE finger-containing phosphoinositide kinase

Target Details

Background: PIP5K3 (also known as phosphatidylinositol-3-phosphate 5-kinase type III or PIPKIII) encodes an enzyme that phosphorylates the D-5 position in PtdIns and phosphatidylinositol-3-phosphate (PtdIns3P) to make PtdIns5P and PtdIns (3,5)biphosphate. PIP5K3 belongs to a large family of lipid kinases that alter the phosphorylation status of intracellular phosphatidylinositol but also have protein kinase activity (1). PIP5K3 regulate cytoskeletal functions, membrane trafficking, and receptor signaling by recruiting protein complexes to cell- and endosomal-membranes. The inhibition of PIP5K3 renders the late endosome/lysosome compartment refractory to fusion with autophagosomes and multivesicular bodies (2). PIP5K3 Protein is ideal for investigators involved in Signaling Proteins, Cellular Proteins, AKT/PKB Pathway, Angiogenesis, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, Inflammation, Invasion/Metastasis, Lipid Kinases, Metabolic Disorder, Neurobiology, NfκB Pathway, and WNT Signaling research.

NCBI Accession: [NM_015040](#)

Pathways: [Inositol Metabolic Process](#)

Application Details

Application Notes: Western_Blot_Dilution: User Optimized
Application_Note: PIP5K3 Protein is suitable for use in Western Blot. Expect a band approximately ~93 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.05 µg/µL

Buffer: PIP5K3 Protein is stored in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

Storage: -80 °C

Storage Comment: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Expiry Date: 12 months