

PI4K2B recombinant protein

PI4K2B, Active

CATALOG # AAA73049	HOST Sf9 insect cells using baculovirus	APPLICATIONS Kinase Assay
------------------------------	---	-------------------------------------

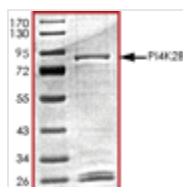
PRODUCT SYNONYMS

PI4K2B; Active; PI4K2B recombinant protein

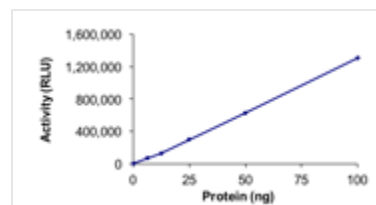
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	Full length
Sequence Length	3601
Applicable Applications for PI4K2B recombinant protein	Kinase Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PI4K2B recombinant protein

Description: Full-length recombinant human PI4K2Beta was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Scientific Background: PI4K2B is a member of the phosphatidylinositol 4-kinase family (PI4K) that phosphorylate phosphatidylinositol to generate phosphatidylinositol 4-phosphate which are immediate precursor of several important signaling and scaffolding molecules. PI4K2B is primarily a cytosolic PI4K that is recruited to membranes where it stimulates phosphatidylinositol 4,5-bisphosphate syntheses (1). PI4K2B uses phosphatidylinositol as their primary substrate and has no activity on phosphatidylinositol monophosphates. PI4K2B is a restricted minor histocompatibility antigen in patients that had been successfully treated with donor lymphocyte infusions for relapsed chronic myeloid leukemia after allogeneic stem cell transplantation (2).

Product Categories/Family for PI4K2B recombinant protein	Enzymes; Active Lipid Kinases
References	1. Balla, A. et.al: Characterization of type II phosphatidylinositol 4-kinase isoforms reveals association of the enzymes with endosomal vesicular compartments. J. Biol. Chem. 277: 20041-20050, 2002. 2. Griffioen, M. et.al: Identification of phosphatidylinositol 4-kinase type II beta as HLA class II-restricted target in graft versus leukemia reactivity. Proc. Nat. Acad. Sci. 105: 3837-3842, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	224591400
NCBI GeneID	55300
NCBI Accession #	NM_018323.3
NCBI GenBank Nucleotide #	NM_018323
UniProt Accession #	Q8TCG2; Q9NUW2
Molecular Weight	~84 kDa
NCBI Official Full Name	Homo sapiens phosphatidylinositol 4-kinase type 2 beta (PI4K2B), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphatidylinositol 4-kinase type 2 beta
NCBI Official Symbol	PI4K2B
NCBI Official Synonym Symbols	PIK42B; PI4KIIB
NCBI Protein Information	phosphatidylinositol 4-kinase type 2-beta
UniProt Protein Name	Phosphatidylinositol 4-kinase type 2-beta
UniProt Gene Name	PI4K2B
UniProt Synonym Gene Names	PI4KII-BETA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/pi4k2b-recombinant-protein-sf9-kinase-assay/73049>