

PI4K2A recombinant protein

PI4K2A, Active

CATALOG # AAA73048	HOST Sf9 insect cells using baculovirus	APPLICATIONS Kinase Assay
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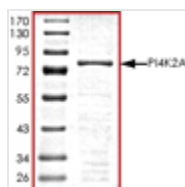
PRODUCT SYNONYMS

PI4K2A; Active; PI4K2A recombinant protein

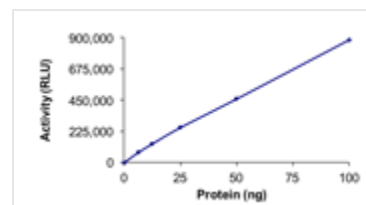
PRODUCT SPECIFICATIONS

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	4204
Applicable Applications for PI4K2A 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 PI4K2A recombinant protein	Description: Recombinant full-length human PI4K2A was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: PI4K2A or phosphatidylinositol 4-kinase type 2 alpha is involved in the formation of phosphatidylinositol-polyphosphates (PtdInsPs) which are centrally involved in many biologic processes ranging from cell growth and organization of the actin cytoskeleton to endo- and exocytosis. PI4K2A phosphorylates PtdIns at the D-4 position which is an essential step in the biosynthesis of PtdInsPs. PI4K2A is a novel regulator of tumor growth by its action on angiogenesis and HIF-1alpha regulation. PI4K2A generates PtdIns4P-rich domains within the Golgi which regulate targeting of clathrin adaptor AP-1 complexes (1). PI4K2A is also required for Wnt to regulate LRP6 phosphorylation (2).
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Product Categories/Family for PI4K2A recombinant protein	Enzymes; Active Lipid Kinases
References	1. Wang. et.al: Phosphatidylinositol 4 phosphate regulates targeting of clathrin adaptor AP-1 complexes to the Golgi. Cell 114: 299-310, 2003. 2. Pan. et.al: Wnt3a-mediated formation of phosphatidylinositol 4,5-bisphosphate regulates LRP6 phosphorylation. Science 321: 1350-1353, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	734520304
NCBI GeneID	55361
NCBI Accession #	NM_018425.3
NCBI GenBank Nucleotide #	NM_018425
UniProt Accession #	Q9BTU6; Q9NSG8; D3DR59
Molecular Weight	~79 kDa
NCBI Official Full Name	Homo sapiens phosphatidylinositol 4-kinase type 2 alpha (PI4K2A), mRNA
NCBI Official Synonym Full Names	phosphatidylinositol 4-kinase type 2 alpha
NCBI Official Symbol	PI4K2A
NCBI Official Synonym Symbols	PI4KII; PIK42A
NCBI Protein Information	phosphatidylinositol 4-kinase type 2-alpha
UniProt Protein Name	Phosphatidylinositol 4-kinase type 2-alpha
UniProt Gene Name	PI4K2A

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.

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Online datasheet: <https://stage.aaabiotech.com/pi4k2a-recombinant-protein-sf9-insect-cells-using-baculovirus-kinase-assay/73048>