

PIK3C2A recombinant protein

PIK3C2A, Active

CATALOG # AAA73050	HOST Sf9 insect cells using baculovirus	APPLICATIONS Kinase Assay
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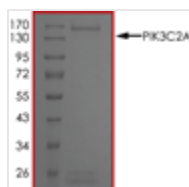
PRODUCT SYNONYMS

PIK3C2A; Active; PIK3C2A recombinant protein

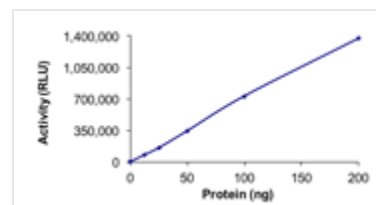
PRODUCT SPECIFICATIONS

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	299-end
Sequence Length	8452
Applicable Applications for PIK3C2A 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 PIK3C2A recombinant protein	Description: Recombinant human PIK3C2A (299-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: PIK3C2A belongs to the phosphoinositide 3-kinase (PI3K) family which play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. PIK3C2A can phosphorylate phosphatidylinositol and phosphatidylinositol-4-phosphate in vitro (1). PIK3C2A contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases that act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions (2).
Product Categories/Family for PIK3C2A recombinant protein	Enzymes; Active Lipid Kinases

References	1. Domin, J. et.al: Cloning of a human phosphoinositide 3-kinase with a C2 domain that displays reduced sensitivity to the inhibitor wortmannin. Biochem. J. 326: 139-147, 1997. 2. Molz, L. et.al: Cpk is a novel class of Drosophila PtdIns 3-kinase containing a C2 domain. J. Biol. Chem. 271: 13892-13899, 1996.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1008909361
NCBI GeneID	5286
NCBI Accession #	NM_002645.3
NCBI GenBank Nucleotide #	NM_002645
UniProt Accession #	O00443; Q14CQ9; B0LPH2; B4E2G4
Molecular Weight	155 kDa
NCBI Official Full Name	Homo sapiens phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha (PIK3C2A), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha
NCBI Official Symbol	PIK3C2A
NCBI Official Synonym Symbols	CPK; PI3-K-C2A; PI3K-C2alpha; PI3K-C2-alpha; PI3-K-C2(ALPHA)
NCBI Protein Information	phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit alpha
UniProt Protein Name	Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit alpha
UniProt Gene Name	PIK3C2A
UniProt Synonym Gene Names	PI3K-C2-alpha; PtdIns-3-kinase C2 subunit alpha

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.