Datasheet for ABIN6700376

PIK3R1 Protein (His tag)

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Overview

Quantity:	20 µg
Target:	PIK3R1 (PI3K p85a)
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3R1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	PI3K (p65 alpha) recombinant protein-HIS Epitope
Purification:	Recombinant human PI3K (p65 alpha) was expressed by baculovirus in Sf9 insect cells using an N-terminal his epitope. The purity was determined to be >80% by densitometry.
Purity:	>80%

Target Details

Target:	PIK3R1 (PI3K p85a)
Alternative Name:	PIK3R1 (PI3K p85a Products)
Background:	Synonyms: PI3K catalytic Domain α, PIK3R1, GRB1, p85-ALPHA, Phosphatidylinositol 3-kinase regulatory subunit alpha, PI3-kinase regulatory subunit alpha, PI3K regulatory subunit alpha, PtdIns-3-kinase regulatory subunit alpha, Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha, PI3-kinase subunit p85-alpha, PtdIns-3-kinase regulatory subunit p85-alpha

Target Details

	Background: PIK3R1 is a Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position which comprises a 110 kD catalytic subunit and a regulatory subunit of either 85, 55, or 50 kD and it encodes the 85 kD regulatory subunit. PIK3R1 protein associates with activated growth factor receptors. p85-alpha modulates the interaction between PI3 kinase and platelet-derived growth factor receptor (1). PI3K plays an essential role in the development and induction of mast cells in normal and pathogenic immune responses (2).Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. PI3K (p65 alpha) 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, NfkB Pathway, and WNT Signaling research.
NCBI Accession:	NM_181523
Pathways:	TCR Signaling, Response to Growth Hormone Stimulus, Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development, Hepatitis C, Protein targeting to Nucleus, VEGF Signaling, BCR Signaling, Warburg Effect

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Application_Note: Human PI3K (p65 alpha) Protein has been tested in SDS-Page and is suitable for use in Western Blot. Expect a band approximately ~67 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:	0.2 µg/µL
Buffer:	PI3K (p65 alpha) Protein is stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 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

Handling

	repeated handling and multiple freeze/thaw cycles.
Expiry Date:	12 months