Datasheet for ABIN6700378

PIK3R2 Protein (His tag)

1 Publication

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Overview

Quantity:	20 µg
Target:	PIK3R2 (PI3K p85b)
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3R2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	PI3K (p85 beta) recombinant protein-HIS Epitope
Purification:	Recombinant full length human PI3K (p85β) was expressed by baculovirus in Sf9 insect cells using an N-Terminal his epitope. The purity was determined to be >85% by densitometry.
Purity:	>85%

Target Details

Target:	PIK3R2 (PI3K p85b)
Alternative Name:	PIK3R2 (PI3K p85b Products)
Background:	Synonyms: PIK3R2, P85B, p85-BETA, Phosphatidylinositol 3-kinase regulatory subunit beta, PI3-kinase regulatory subunit beta, PI3K regulatory subunit beta, PtdIns-3-kinase regulatory subunit beta, Phosphatidylinositol 3-kinase 85 kDa regulatory subunit beta, PI3-kinase subunit p85-beta, PtdIns-3-kinase regulatory subunit p85-beta

Target Details

	Background: Phosphatidylinositol 3-kinase (PI3K) is a lipid kinase that phosphorylates the inositol ring of phosphatidylinositol and related lipid products at the 3-prime position. PI3K p85 subunit which is the regulatory subunit of PI3K and consists of 2 closely related proteins, p85-alpha and p85-beta (1). The activation of PI3K signaling in influenza A virus-infected cells is important for efficient virus replication (2). PI3K signaling in T cells can lead to organ-specific autoimmunity and the class IA PI3K-deficient mice manifest the cardinal features of human primary Sjogren's syndrome-like disease (3). PI3k (p85 beta) 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_005027
Pathways:	VEGF Signaling, BCR Signaling

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Other: Kinase Assay-User Optimized Application_Note: Human PI3K (p85 beta) Protein has been tested in SDS-Page and is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~88 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Comment:	Biochemical Assay, Functional Assay
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1 mg/mL
Buffer:	PI3K (p85 beta) 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 repeated handling and multiple freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Haapalainen, Daddali, Hallman, Rämet: "Human CPPED1 belongs to calcineurin-like metallophosphoesterase superfamily and dephosphorylates PI3K-AKT pathway component PAK4." in: **Journal of cellular and molecular medicine**, Vol. 25, Issue 13, pp. 6304-6317, (2021) (PubMed).

