Datasheet for ABIN7163193

anti-PIK3CB antibody (Catalytic Subunit beta) (Biotin)

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Overview

Quantity:	100 µg
Target:	PIK3CB
Binding Specificity:	AA 90-320, Catalytic Subunit beta
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3CB antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform protein (90-320AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	PIK3CB
Alternative Name:	PIK3CB (PIK3CB Products)
Background:	Background: Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns

(Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns(4,5)P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Involved in the activation of AKT1 upon stimulation by G-protein coupled receptors (GPCRs) ligands such as CXCL12, sphingosine 1-phosphate, and lysophosphatidic acid. May also act downstream receptor tyrosine kinases. Required in different signaling pathways for stable platelet adhesion and aggregation. Plays a role in platelet activation signaling triggered by GPCRs, alpha-IIb/beta-3 integrins (ITGA2B/ ITGB3) and ITAM (immunoreceptor tyrosine-based activation motif)-bearing receptors such as GP6. Regulates the strength of adhesion of ITGA2B/ ITGB3 activated receptors necessary for the cellular transmission of contractile forces. Required for platelet aggregation induced by F2 (thrombin) and thromboxane A2 (TXA2). Has a role in cell survival. May have a role in cell migration. Involved in the early stage of autophagosome formation. Modulates the intracellular level of PtdIns3P (Phosphatidylinositol 3-phosphate) and activates PIK3C3 kinase activity. May act as a scaffold, independently of its lipid kinase activity to positively regulate autophagy. May have a role in insulin signaling as scaffolding protein in which the lipid kinase activity is not required. May have a kinase-independent function in regulating cell proliferation and in clathrin-mediated endocytosis. Mediator of oncogenic signal in cell lines lacking PTEN. The lipid kinase activity is necessary for its role in oncogenic transformation. Required for the growth of ERBB2 and RAS driven tumors.

Aliases: 5-bisphosphate 3-kinase 110 kDa catalytic subunit beta antibody, 5-bisphosphate 3-kinase catalytic subunit beta isoform antibody, DKFZp779K1237 antibody, MGC133043 antibody, OTTHUMP00000216901 antibody, OTTHUMP00000216904 antibody, p110 BETA antibody, p110Beta antibody, Phosphatidylinositol 3 kinase catalytic beta polypeptide antibody, Phosphatidylinositol 4 5 bisphosphate 3 kinase 110 kDa catalytic subunit beta antibody, Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit beta isoform antibody, Phosphatidylinositol-4 antibody, Phosphoinositide 3 kinase catalytic beta polypeptide antibody, PI3 kinase p110 subunit beta antibody, PI3-kinase subunit beta antibody, PI3K antibody, PI3K beta antibody, PI3K-beta antibody, PI3Kbeta antibody, PI3KCB antibody, PIK3C1 antibody, Pik3cb antibody, PK3CB_HUMAN antibody, PtdIns 3 kinase p110 antibody, PtdIns-3-kinase subunit beta antibody, PtdIns-3-kinase subunit p110-beta antibody

UniProt:	P42338

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.