Immunotag™ PIK3CB Antibody

Antibody Specification

Catalog No.	ITA3566
Product Description	Immunotag™ PIK3CB Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PIK3CB
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide
Specificity	PIK3CB antibody detects endogenous levels of total PIK3CB
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Gene Name	PIK3CB
Accession No.	P42338

Antibody Specification

Alternate Names	5-bisphosphate 3-kinase 110 kDa catalytic subunit beta; 5-bisphosphate 3-kinase catalytic subunit beta isoform; DKFZp779K1237; MGC133043; OTTHUMP00000216901; OTTHUMP00000216904; p110 BETA; p110Beta; Phosphatidylinositol 3 kinase catalytic beta polypeptide; Phosphatidylinositol 4 5 bisphosphate 3 kinase 110 kDa catalytic subunit beta; Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit beta isoform; Phosphatidylinositol-4; Phosphoinositide 3 kinase catalytic beta polypeptide; PI3 kinase p110 subunit beta; PI3-kinase subunit beta; PI3K; PI3K beta; PI3K-beta; PI3Kbeta; PI3KCB; PIK3C1; Pik3cb; PK3CB_HUMAN; PtdIns 3 kinase p110; PtdIns-3-kinase subunit beta; PtdIns-3-kinase subunit p110-beta;
Description	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.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	110 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.