Immunotag™ PIK3CD Antibody

Antibody Specification

Catalog No.	ITA3567
Product Description	Immunotag™ PIK3CD 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	PIK3CD
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
Host Species	Rabbit
Immunogen	A synthesized peptide
Specificity	PIK3CD antibody detects endogenous levels of total PIK3CD
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	PIK3CD
Accession No.	O00329

Antibody Specification

Alternate Names	5-bisphosphate 3-kinase 110 kDa catalytic subunit delta; 5-bisphosphate 3-kinase catalytic subunit delta isoform; APDS; GRB1; IMD14; p110d; p110delta; p110dp85a; p85-ALPHA; Phosphatidylinositol 3 kinase catalytic delta polypeptide; Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit delta isoform; Phosphatidylinositol 4,5 bisphosphate 3 kinase 110 kDa catalytic subunit delta; Phosphatidylinositol 4,5 bisphosphate 3 kinase, catalytic subunit delta; Phosphatidylinositol 45 bisphosphate 3 kinase catalytic subunit delta isoform; Phosphatidylinositol-4; Phosphoinositide 3 kinase B; Phosphoinositide 3 kinase C; Phosphoinositide 3 kinase catalytic delta polypeptide; Phosphoinositide 3 kinase, catalytic, delta polypeptide variant p37delta; PI3 kinase p110 subunit delta; PI3-kinase subunit delta; PI3K; PI3K-delta; PI3Kdelta; Pik3cd; PIK3R1; PK3CD; PK3CD_HUMAN; PtdIns 3 kinase p110; PtdIns 3 kinase subunit p110 delta; PtdIns-3-kinase subunit delta; PtdIns-3-kinase subunit p110-delta;
Description	Phosphoinositide-3-kinase (PI3K) that phosphorylates PftdIns(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. Mediates immune responses. Plays a role in B-cell development, proliferation, migration, and function. Required for B-cell receptor (BCR) signaling. Mediates B-cell proliferation response to anti-IgM, anti-CD40 and IL4 stimulation. Promotes cytokine production in response to TLR4 and TLR9. Required for antibody class switch mediated by TLR9. Involved in the antigen presentation function of B-cells. Involved in B-cell chemotaxis in response to CXCL13 and sphingosine 1-phosphate (S1P). Required for proliferation, signaling and cytokine production of naive, effector and memory T-cells. Required for T-cell receptor (TCR) signaling. Mediates TCR signaling events at the immune synapse. Activation by TCR leads to antigen-dependent memory T-cell migration and retention to antigenic tissues. Together with PIK3CG participates in T-cell development. Contributes to T-helper cell expansion and differentiation. Required for T-cell migration mediated by homing receptors SELL/CD62L, CCR7 and S1PR1 and antigen dependent recruitment of T-cells. Together with PIK3CG is involved in natural killer (NK) cell development and migration towards the sites of inflammation. Participates in NK cell receptor activation. Have a role in NK cell maturation and cytokine production. Together with PIK3CG is involved in neutrophil chemotaxis and extravasation. Together with PIK3CG participates in neutrophil respiratory burst. Have important roles in mast-cell development and mast cell mediated allergic response. Involved in stem cell factor (SCF)-mediated proliferation, adhesion and migration. Required for allergen-IgE-induced degranulation and cytokine release. The lipid kinase activity is required for its biological function. Isoform 2 may be involved in stabilizing total RAS levels, resulting in increased ERK phosphorylation and increased PI3K activity.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	110 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.