

Datasheet for ABIN7562384

PIK3CD Protein (AA 1-1043) (His tag)



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Quantity:	1 mg
Target:	PIK3CD
Protein Characteristics:	AA 1-1043
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3CD protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details	
Purpose:	Custom-made recombinat Pik3cd Protein expressed in mammalien cells.
Sequence:	MPPGVDCPME FWTKEESQSV VVDFLLPTGV YLNFPVSRNA NLSTIKQVLW HRAQYEPLFH
	MLSDPEAYVF TCVNQTAEQQ ELEDEQRRLC DIQPFLPVLR LVAREGDRVK KLINSQISLL
	IGKGLHEFDS LRDPEVNDFR TKMRQFCEEA AAHRQQLGWV EWLQYSFPLQ LEPSARGWRA
	GLLRVSNRAL LVNVKFEGSE ESFTFQVSTK DMPLALMACA LRKKATVFRQ PLVEQPEEYA
	LQVNGRHEYL YGNYPLCHFQ YICSCLHSGL TPHLTMVHSS SILAMRDEQS NPAPQVQKPR
	AKPPPIPAKK PSSVSLWSLE QPFSIELIEG RKVNADERMK LVVQAGLFHG NEMLCKTVSS
	SEVNVCSEPV WKQRLEFDIS VCDLPRMARL CFALYAVVEK AKKARSTKKK SKKADCPIAW
	ANLMLFDYKD QLKTGERCLY MWPSVPDEKG ELLNPAGTVR GNPNTESAAA LVIYLPEVAP
	HPVYFPALEK ILELGRHGER GRITEEELQL REILERRGSG ELYEHEKDLV WKMRHEVQEH
	FPEALARLLL VTKWNKHEDV AQMLYLLCSW PELPVLSALE LLDFSFPDCY VGSFAIKSLR
	KLTDDELFQY LLQLVQVLKY ESYLDCELTK FLLGRALANR KIGHFLFWHL RSEMHVPSVA

ETYMEALSHL QSPLDPSTLL EEVCVEQCTF MDSKMKPLWI MYSSEEAGSA GNVGIIFKNG
DDLRQDMLTL QMIQLMDVLW KQEGLDLRMT PYGCLPTGDR TGLIEVVLHS DTIANIQLNK
SNMAATAAFN KDALLNWLKS KNPGEALDRA IEEFTLSCAG YCVATYVLGI GDRHSDNIMI
RESGQLFHID FGHFLGNFKT KFGINRERVP FILTYDFVHV IQQGKTNNSE KFERFRGYCE
RAYTILRRHG LLFLHLFALM RAAGLPELSC SKDIQYLKDS LALGKTEEEA LKHFRVKFNE
ALRESWKTKV NWLAHNVSKD NRQ Sequence without tag. The proposed Purification-Tag is
based on experiences with the expression system, a different complexity of the protein
could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein from design to production by highly experienced protein experts.
- Protein expressed in mammalien cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:	PIK3CD
Alternative Name:	Pik3cd (PIK3CD Products)
Background:	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit delta isoform (PI3-kinase subunit delta) (PI3K-delta) (PI3Kdelta) (PtdIns-3-kinase subunit delta) (EC 2.7.1.137) (EC
	2.7.1.153) (Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit delta)
	(PtdIns-3-kinase subunit p110-delta) (p110delta),FUNCTION: Phosphoinositide-3-kinase (PI3K)

phosphorylates phosphatidylinositol (PI) and its phosphorylated derivatives at position 3 of the inositol ring to produce 3-phosphoinositides. Uses ATP and PtdIns(4,5)P2 (phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) (PubMed:9235916). 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 Bcell 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 Bcell 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 Thelper 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. Plays 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. Plays 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. {ECO:0000269|PubMed:12130661, ECO:0000269|PubMed:12235209, ECO:0000269|PubMed:15496927, ECO:0000269|PubMed:16116162, ECO:0000269|PubMed:18259608, ECO:0000269|PubMed:18809712, ECO:0000269|PubMed:19297623, ECO:0000269|PubMed:9235916}.

Molecular Weight:

119.7 kDa

UniProt:

035904

Pathways:

BCR Signaling, Warburg Effect

Application Details

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months