Datasheet for ABIN7554929

PHLPP2 Protein (AA 1-1323) (His tag)

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Overview

Quantity:	1 mg
Target:	PHLPP2
Protein Characteristics:	AA 1-1323
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHLPP2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PHLPP2 Protein expressed in mammalien cells.
Sequence:	MKRNGSRNCL NRRSRFGSRE RDWLREDVKR GCVYLYGADT TTATTTTTTS SSSSSSSSSS DLHLVLCTVE TPASEICAGE GRESLYLQLH GDLVRRLEPT ERPLQIVYDY LSRLGFDDPV RIQEEATNPD LGCMIRFYGE KPCHMDRLDR ILLSGIYNVR KGKTQLHKWA ERLVVLCGTC LIVSSVKDCQ TGKMHILPLV GGKIEEVKRR QYSLAFSSAG AQAQTYHVSF ETLAEYQRWQ RQASKVVSQR ISTVDLSCYS LEEVPEHLFY SQDITYLNLR HNFMQLERPG GLDTLYKFSQ LKGLNLSHNK LGLFPILLCE ISTLTELNLS CNGFHDLPSQ IGNLLNLQTL CLDGNFLTTL PEELGNLQQL SSLGISFNNF SQIPEVYEKL TMLDRVVMAG NCLEVLNLGV LNRMNHIKHV DLRMNHLKTM VIENLEGNKH ITHVDLRDNR LTDLDLSSLC SLEQLHCGRN QLRELTLSGF SLRTLYASSN RLTAVNVYPV PSLLTFLDLS RNLLECVPDW ACEAKKIEVL DVSYNLLTEV PVRILSSLSL RKLMLGHNHV QNLPTLVEHI PLEVLDLQHN ALTRLPDTLF SKALNLRYLN ASANSLESLP SACTGEESLS MLQLLYLTNN LLTDQCIPVL VGHLHLRILH LANNQLQTFP

Product Details

	ASKLNKLEQL EELNLSGNKL KTIPTTIANC KRLHTLVAHS NNISIFPEIL QLPQIQFVDL SCNDLTEILI PEALPATLQD LDLTGNTNLV LEHKTLDIFS HITTLKIDQK PLPTTDSTVT STFWSHGLAE MAGQRNKLCV SALAMDSFAE GVGAVYGMFD GDRNEELPRL LQCTMADVLL EEVQQSTNDT VFMANTFLVS HRKLGMAGQK LGSSALLCYI RPDTADPASS FSLTVANVGT CQAVLCRGGK PVPLSKVFSL EQDPEEAQRV KDQKAIITED NKVNGVTCCT RMLGCTYLYP WILPKPHISS TPLTIQDELL ILGNKALWEH LSYTEAVNAV RHVQDPLAAA KKLCTLAQSY GCQDNVGAMV VYLNIGEEGC TCEMNGLTLP GPVGFASTTT IKDAPKPATP SSSSGIASEF SSEMSTSEVS SEVGSTASDE HNAGGLDTAL LPRPERRCSL HPTPTSGLFQ RQPSSATFSS NQSDNGLDSD DDQPVEGVIT NGSKVEVEVD IHCCRGRDLE NSPPLIESSP TLCSEEHARG SCFGIRRQNS VNSGMLLPMS KDRMELQKSP STSCLYGKKL SNGSIVPLED SLNLIEVATE VPKRKTGYFA APTQMEPEDQ FVVPHDLEEE VKEQMKQHQD SRLEPEPHEE DRTEPPEEFD TAL **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:	PHLPP2

Target Details

Alternative Name:	PHLPP2 (PHLPP2 Products)
Background:	PH domain leucine-rich repeat-containing protein phosphatase 2 (EC 3.1.3.16) (PH domain leucine-rich repeat-containing protein phosphatase-like) (PHLPP-like),FUNCTION: Protein phosphatase involved in regulation of Akt and PKC signaling. Mediates dephosphorylation in the C-terminal domain hydrophobic motif of members of the AGC Ser/Thr protein kinase family, specifically acts on 'Ser-473' of AKT1, 'Ser-660' of PRKCB isoform beta-II and 'Ser-657' of PRKCA. Akt regulates the balance between cell survival and apoptosis through a cascade that primarily alters the function of transcription factors that regulate pro- and antiapoptotic genes. Dephosphorylation of 'Ser-473' of Akt triggers apoptosis and decreases cell proliferation. Also controls the phosphorylation of AKT3. Dephosphorylates STK4 on 'Thr-387' leading to STK4 activation and apoptosis (PubMed:20513427). Dephosphorylates RPS6KB1 and is involved in regulation of cap-dependent translation (PubMed:21986499). Inhibits cancer cell proliferation and may act as a tumor suppressor. Dephosphorylation of PRKCA and PRKCB leads to their destabilization and degradation. Dephosphorylates RAF1 inhibiting its kinase activity (PubMed:24530606). {ECO:0000269|PubMed:17386267, ECO:0000269|PubMed:18162466, ECO:0000269|PubMed:19079341, ECO:0000269|PubMed:20513427, ECO:0000269|PubMed:21986499, ECO:0000269|PubMed:24530606}.
Molecular Weight:	146.8 kDa
UniProt:	Q6ZVD8
Pathways:	PI3K-Akt Signaling, Fc-epsilon Receptor Signaling Pathway

Application Details

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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months