Datasheet for ABIN7553613

DAB2IP Protein (AA 1-1189) (His tag)

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Overview

Quantity:	1 mg
Target:	DAB2IP
Protein Characteristics:	AA 1-1189
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DAB2IP protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat DAB2IP Protein expressed in mammalien cells.
Sequence:	MSAGGSARKS TGRSSYYYRL LRRPRLQRQR SRSRSRTRPA RESPQERPGS RRSLPGSLSE KSPSMEPSAA TPFRVTGFLS RRLKGSIKRT KSQPKLDRNH SFRHILPGFR SAAAAAADNE RSHLMPRLKE SRSHESLLSP SSAVEALDLS MEEEVVIKPV HSSILGQDYC FEVTTSSGSK CFSCRSAAER DKWMENLRRA VHPNKDNSRR VEHILKLWVI EAKDLPAKKK YLCELCLDDV LYARTTGKLK TDNVFWGEHF EFHNLPPLRT VTVHLYRETD KKKKKERNSY LGLVSLPAAS VAGRQFVEKW YPVVTPNPKG GKGPGPMIRI KARYQTITIL PMEMYKEFAE HITNHYLGLC AALEPILSAK TKEEMASALV HILQSTGKVK DFLTDLMMSE VDRCGDNEHL IFRENTLATK AIEEYLKLVG QKYLQDALGE FIKALYESDE NCEVDPSKCS AADLPEHQGN LKMCCELAFC KIINSYCVFP RELKEVFASW RQECSSRGRP DISERLISAS LFLRFLCPAI MSPSLFNLLQ EYPDDRTART LTLIAKVTQN LANFAKFGSK EEYMSFMNQF LEHEWTNMQR FLLEISNPET LSNTAGFEGY IDLGRELSSL HSLLWEAVSQ LEQSIVSKLG PLPRILRDVH TALSTPGSGQ

Product Details

	LPGTNDLAST PGSGSSSISA GLQKMVIEND LSGLIDFTRL PSPTPENKDL FFVTRSSGVQ PSPARSSSYS EANEPDLQMA NGGKSLSMVD LQDARTLDGE AGSPAGPDVL PTDGQAAAAQ LVAGWPARAT PVNLAGLATV RRAGQTPTTP GTSEGAPGRP QLLAPLSFQN PVYQMAAGLP LSPRGLGDSG SEGHSSLSSH SNSEELAAAA KLGSFSTAAE ELARRPGELA RRQMSLTEKG GQPTVPRQNS AGPQRRIDQP PPPPPPPPPA PRGRTPPNLL STLQYPRPSS GTLASASPDW VGPSTRLRQQ SSSSKGDSPE LKPRAVHKQG PSPVSPNALD RTAAWLLTMN AQLLEDEGLG PDPPHRDRLR SKDELSQAEK DLAVLQDKLR ISTKKLEEYE TLFKCQEETT QKLVLEYQAR LEEGEERLRR QQEDKDIQMK GIISRLMSVE EELKKDHAEM QAAVDSKQKI IDAQEKRIAS LDAANARLMS ALTQLKERYS MQARNGISPT NPTKLQITEN GEFRNSSNC **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:	DAB2IP
Alternative Name:	DAB2IP (DAB2IP Products)
Background:	Disabled homolog 2-interacting protein (DAB2 interaction protein) (DAB2-interacting protein)

(ASK-interacting protein 1) (AIP-1) (DOC-2/DAB-2 interactive protein),FUNCTION: Functions as a scaffold protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Involved in several processes such as innate immune response, inflammation and cell growth inhibition, apoptosis, cell survival, angiogenesis, cell migration and maturation. Also plays a role in cell cycle checkpoint control, reduces G1 phase cyclin levels resulting in G0/G1 cell cycle arrest. Mediates signal transduction by receptor-mediated inflammatory signals, such as the tumor necrosis factor (TNF), interferon (IFN) or lipopolysaccharide (LPS). Modulates the balance between phosphatidylinositol 3-kinase (PI3K)-AKT-mediated cell survival and apoptosis stimulated kinase (MAP3K5)-JNK signaling pathways, sequesters both AKT1 and MAP3K5 and counterbalances the activity of each kinase by modulating their phosphorylation status in response to pro-inflammatory stimuli. Acts as a regulator of the endoplasmic reticulum (ER) unfolded protein response (UPR) pathway, specifically involved in transduction of the ER stress-response to the JNK cascade through ERN1. Mediates TNF-alpha-induced apoptosis activation by facilitating dissociation of inhibitor 14-3-3 from MAP3K5, recruits the PP2A phosphatase complex which dephosphorylates MAP3K5 on 'Ser-966', leading to the dissociation of 13-3-3 proteins and activation of the MAP3K5-JNK signaling pathway in endothelial cells. Mediates also TNF/TRAF2-induced MAP3K5-JNK activation, while it inhibits CHUK-NF-kappa-B signaling. Acts a negative regulator in the IFN-gamma-mediated JAK-STAT signaling cascade by inhibiting smooth muscle cell (VSMCs) proliferation and intimal expansion, and thus, prevents graft arteriosclerosis (GA). Acts as a GTPase-activating protein (GAP) for the ADP ribosylation factor 6 (ARF6) and Ras. Promotes hydrolysis of the ARF6-bound GTP and thus, negatively regulates phosphatidylinositol 4,5-bisphosphate (PIP2)-dependent TLR4-TIRAP-MyD88 and NF-kappa-B signaling pathways in endothelial cells in response to lipopolysaccharides (LPS). Binds specifically to phosphatidylinositol 4-phosphate (PtdIns4P) and phosphatidylinositol 3-phosphate (PtdIns3P). In response to vascular endothelial growth factor (VEGFA), acts as a negative regulator of the VEGFR2-PI3K-mediated angiogenic signaling pathway by inhibiting endothelial cell migration and tube formation. In the developing brain, promotes both the transition from the multipolar to the bipolar stage and the radial migration of cortical neurons from the ventricular zone toward the superficial layer of the neocortex in a glial-dependent locomotion process. Probable downstream effector of the Reelin signaling pathway, promotes Purkinje cell (PC) dendrites development and formation of cerebellar synapses. Functions also as a tumor suppressor protein in prostate cancer progression, prevents cell proliferation and epithelial-to-mesenchymal transition (EMT) through activation of the glycogen synthase kinase-3 beta (GSK3B)-induced beta-catenin and inhibition of PI3K-AKT and Ras-MAPK survival downstream signaling cascades, respectively. {ECO:0000269|PubMed:12813029,

Target Details

	ECO:0000269|PubMed:17389591, ECO:0000269|PubMed:18292600, ECO:0000269|PubMed:19033661, ECO:0000269|PubMed:19903888, ECO:0000269|PubMed:19948740, ECO:0000269|PubMed:20080667, ECO:0000269|PubMed:20154697, ECO:0000269|PubMed:21700930, ECO:0000269|PubMed:22696229}.
Molecular Weight:	131.6 kDa
UniProt:	Q5VWQ8
Pathways:	EGFR Signaling Pathway, Cellular Response to Molecule of Bacterial Origin, Tube Formation

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