Datasheet for ABIN7564238

Nischarin Protein (NISCH) (AA 1-1593) (His tag)

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Overview

Quantity:	1 mg
Target:	Nischarin (NISCH)
Protein Characteristics:	AA 1-1593
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Nischarin protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Nisch Protein expressed in mammalien cells.
Sequence:	MAAATLSFGP EREAEPAKEA RVVGSELVDT YTVYVIQVTD GNHEWTIKHR YSDFHDLHEK LVAERKIDKS LLPPKKIIGK NSRSLVEKRE RDLEVYLQTL LTTFPDVAPR VLAHFLHFHL YEVNGVTAAL AEELFEKGEQ LLGAGEVFAI RPLQLYAITE QLQQGKPTCA SGDAKTDLGH ILDFTCRLKY LKVSGTEGPF GTSNIKEQLL PFDLSIFKSL HQVEISHCDA KHIRGLVTSK PTLATMSVRF SATSMKEVLA PEASEFDEWE PEGTATLGGP VTAIIPTWQA LTTLDLSHNS ICEIDESVKL IPKIEYLDLS HNGLRVVDNL QHLYNLVHLD LSYNKLSSLE GVHTKLGNVK TLNLAGNFLE SLSGLHKLYS LVNVDLRDNR IEQLDEVKSI GSLPCLERLT LLNNPLSIIP DYRTKVLSQF GERASEICLD DVATTEKELD TVEVLKAIQK AKDVKSKLSN TEKKAGEDFR LPPAPCIRPG GSPPAAPASA SLPQPILSNQ GIMFVQEEAL ASSLSSTDSL PPEDHRPIAR ACSDSLESIP AGQVASDDLR DVPGAVGGVS PDHAEPEVQV VPGSGQIIFL PFTCIGYTAT NQDFIQRLST LIRQAIERQL PAWIEAANQR EEAHGEQGEE EEEEEEEEDV AENRYFEMGP

	PDAEEEEGSG QGEEDEEDED EEAEEERLAL EWALGADEDF LLEHIRILKV LWCFLIHVQG SIRQFAACLV LTDFGIAVFE IPHQESRGSS QHILSSLRFV FCFPHGDLTE FGFLMPELCL VLKVRHSENT LFIISDAANL HEFHADLRSC FAPQHMAMLC SPILYGSHTT LQEFLRQLLT FYKVAGGSQE RSQGCFPVYL VYSDKRMVQT PAGDYSGNIE WASCTLCSAV RRSCCAPSEA VKSAAIPYWL LLTSQHLNVI KADFNPMPNR GTHNCRNRNS FKLSRVPLST VLLDPTRSCT QPRGAFADGH VLELLVGYRF VTAIFVLPHE KFHFLRVYNQ LRASLQDLKT VVISKNPSAK PRNQPAKSRA SAEQRLQETP ADAPAPAAVP PTASAPAPAE ALAPDLAPVQ APGEDRGLTS AEAPAAAEAP AAAEAPAAAE APAAAEAPAA AEAPAAAEAP AAAEAPAAAE APAAAEAPAA AEAPAAAEAP ASAEAPAPNQ APAPARGPAP ARGPAPAGGP APAEALAQAE VPAQYPSERL IQSTSEENQI PSHLPVCPSL QHIARLRGRA IIDLFHNSIA EVENEELRHL LWSSVVFYQT PGLEVTACVL LSSKAVYFIL HDGLRRYFSE PLQDFWHQKN TDYNNSPFHV SQCFVLKLSD LQSVNVGLFD QYFRLTGSSP TQVVTCLTRD SYLTHCFLQH LMLVLSSLER TPSPEPVDKD FYSEFGDKNT GKMENYELIH SSRVKFTYPS EEEVGDLTYI VAQKMADPAK NPALSILLYI QAFQVVTPHL GRGRGPLRPK TLLLTSAEIF LLDEDYIHYP LPEFAKEPPQ RDRYRLDDGR RVRDLDRVLM GYYPYPQALT LVFDDTQGHD LMGSVTLDHF GEMPGGPGRV GQGREVQWQV FVPSAESREK LISLLARQWE ALCGRELPVE LTG **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

Product Details

Grade:	custom-made

Target Details

Target:	Nischarin (NISCH)
Alternative Name:	Nisch (NISCH Products)
Background:	Nischarin (Imidazoline receptor 1) (I-1) (IR1) (Imidazoline receptor I-1-like protein) (Imidazoline-1 receptor) (I1R),FUNCTION: Acts either as the functional imidazoline-1 receptor (I1R) candidate or as a membrane-associated mediator of the I1R signaling. Binds numerous imidazoline ligands that induces initiation of cell-signaling cascades triggering to cell survival, growth and migration. Its activation by the agonist rilmenidine induces an increase in phosphorylation of mitogen-activated protein kinases MAPK1 and MAPK3 in rostral ventrolateral medulla (RVLM) neurons that exhibited rilmenidine-evoked hypotension (By similarity). Blocking its activation with efaroxan abolished rilmenidine-induced mitogen-activated protein kinase phosphorylation in RVLM neurons (By similarity). Acts as a modulator of Rac-regulated signal transduction pathways. Suppresses Rac1-stimulated cell migration by interacting with PAK1 and inhibiting its kinase activity. Also blocks Pak-independent Rac signaling by interacting with RAC1 and inhibiting Rac1-stimulated NF-kB response element and cyclin D1 promoter activation. Inhibits also LIMK1 kinase activity by reducing LIMK1 'Tyr-508' phosphorylation. Inhibits Rac-induced cell migration and invasion in breast and colon epithelial cells. Inhibits lamellipodia formation, when overexpressed. Plays a role in protection against apoptosis (By similarity). Involved in association with IRS4 in the enhancement of insulin activation of MAPK1 and MAPK3 (By similarity). When overexpressed, induces a redistribution of cell surface ITGA5 integrin to intracellular endosomal structures (By similarity). {ECO:0000250, ECO:0000269|PubMed:11121431, ECO:0000269|PubMed:12915132, ECO:0000269|PubMed:15229651, ECO:0000269|PubMed:16002401, ECO:0000269|PubMed:16678176, ECO:0000269|PubMed:18332102}.
Molecular Weight:	175.0 kDa
UniProt:	Q80TM9

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.

Application Details

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