

Product datasheet for TP306026L

NISCH (NM_007184) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human nischarin (NISCH), 1 mg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC206026 protein sequence
 Red=Cloning site Green=Tags(s)

MATARTFGPEREAEPAKEARVVGSELVDITYTVYIIQVTDGSHEWTVKHRYSDFHDLHEKLVAERKIDKNL
 LPPKKIIGKNSRSLVEKREKDLVYLQKLLAAFPVTPRVLAHFLHFHFEINGITAALAEELFEKGEQL
 LGAGEVFAIGPLQLYAVTEQLQQGKPTCASGDAKTDLGHILDFTCRLKYLKVSGETGPFPGTSNIQEQLLP
 FDSLIFKSLHQVEISHCDAKHIRGLVASKPTLATLSVRFSAISMKEVLVPEASEFDEWEPEGTTLEGPVT
 AVIPTWQALTTLDLSHNSISEIDESVKLIPKIEFLDLSHNGLLVVDNLQHLYNLVHLDLSYNKLSLEGL
 HTKLGNIKTLNLAGNLLLESLSGLHKLYSLVNLDLRDNRIEQMEEVRSIGSLPCLEHVSLNNPLSIIPDY
 RTKVLAQFGERASEVCLDDTVTTEKELDTVEVLKAIQKAKEVSKLSNPEKKGEDSRLSAAPCIRPSSS
 PPTVAPASALPQPILSNQGIMFVQEEALASSLSSTDSLTPHQPIAQGCSDSLESIPAGQAASDDLDRD
 PGAVGGASPEHAPEVQVWPGSGQIIFLPFTCIGYTATNQDFIQRLSTLIRQAIERQLPAWIEAANQREE
 GQGEQGEEDDEEEEDVAENRYFEMGPPDVEEEEGGGQGEEDDEEAEERLALAWALGADEDF
 LLEHIRILKVLWCFLIHVQGSIRQFAACLVLTDFGIAVFEIPHQESRGSSQHILSSLRVFCFPHGDLTE
 FGFLMPELCLVLKVRHSENTLFIISDAANLHEFHADLRSCFAPQHMAMLCSPILYGSHTSLQEFRLQLLT
 FYKVAGGCQERSQGCFPVYLVYSDKRMVQTAAGDYSGNIEWASCTLCSAVRRSCCAPSEAVKSAAIPIYWL
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 VTAIFVLPHEKHFHFLRVYNQLRASLQDLKTVIAKTPGTGGSPQGSFADGQPAERRASNDQRPQVEPAEA
 LAPAPVEVPAPAPAAAASASGPAKTPAPAEASTSALVPEETPVEAPAPPAEAPAQYPSEHLIQTSEENQ
 IPPHLPACPSLRHVASLRGSAIIELFHSSIAEVENEELRHLMWSSVVFYQTPGLEVTACVLLSTKAVYFV
 LHDGLRRYFSEPLQDFWHQKNTDYNNSPFHISQCFVLKLSDLQSVNVGLFDQHFRLTGSTPMQWVTCCLR
 DSYLTHCFLQHLMVVLSLERTPSPEPVDKDFYSEFGNKTTGKMENYELIHSSRVKFTYPSSEEEIGDLTF
 TVAQKMAEPEKAPALSILLYVQAFQVGMPPPGCCRGPLRPKTLTLLTSSEIFLLDEDCVHYLPEFAKEPP
 QRDRYRLDDGRRVRDLDRVLMGYQTYPQALTLVFDDVQGHDLMGSVTLDFHGEVPGGPARASQGREVQWQ
 VFVPSAESREKLISLLARQWEALCGRELPVELTG

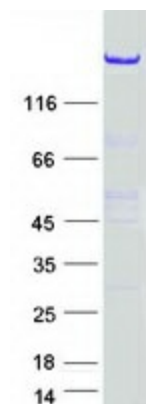
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK



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Predicted MW:	166.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_009115
Locus ID:	11188
UniProt ID:	Q9Y211
RefSeq Size:	5252
Cytogenetics:	3p21.1
RefSeq ORF:	4512
Synonyms:	hIRAS; I-1; IR1; IRAS
Summary:	<p>This gene encodes a nonadrenergic imidazoline-1 receptor protein that localizes to the cytosol and anchors to the inner layer of the plasma membrane. The orthologous mouse protein has been shown to influence cytoskeletal organization and cell migration by binding to alpha-5-beta-1 integrin. In humans, this protein has been shown to bind to the adapter insulin receptor substrate 4 (IRS4) to mediate translocation of alpha-5 integrin from the cell membrane to endosomes. Expression of this protein was reduced in human breast cancers while its overexpression reduced tumor growth and metastasis; possibly by limiting the expression of alpha-5 integrin. In human cardiac tissue, this gene was found to affect cell growth and death while in neural tissue it affected neuronal growth and differentiation. Alternative splicing results in multiple transcript variants encoding different isoforms. Some isoforms lack the expected C-terminal domains of a functional imidazoline receptor. [provided by RefSeq, Jan 2013]</p>
Protein Families:	Druggable Genome

Product images:

Coomassie blue staining of purified NISCH protein (Cat# [TP306026]). The protein was produced from HEK293T cells transfected with NISCH cDNA clone (Cat# [RC206026]) using MegaTran 2.0 (Cat# [TT210002]).