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Datasheet for ABIN7552840
NEDD9 Protein (AA 1-834) (His tag)

Overview

Quantity:	1 mg
Target:	NEDD9
Protein Characteristics:	AA 1-834
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEDD9 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinant NEDD9 Protein expressed in mammalian cells.
Sequence:	<pre>MKYKNLMARA LYDNVPECAE ELAFRKGDIL TVIEQNTGGL EGWWLCSLHG RQGIVPGNRV KLLIGPMQET ASSHEQPASG LMQQTFGQQK LYQVNPQAA PRDTIYQVPP SYQNQGIYQV PTGHGTQEQE VYQVPPSVQR SIGGTSGPHV GKKVITPVRT GHGYVVEYPS RYQKDVDIP PSHTTQGVYD IPPSSAKGPV FSVPVGEIKP QGVYDIPPTK GVYAIPPSAC RDEAGLREKD YDFPPMRQA GRPDLRPEGV YDIPPTCTKP AGKDLHVKYN CDIPGAAEPV ARRHQSLSPN HPPPQLGQSV GSQNDAYDVP RGVQFLEPPA ETSEKANPQE RDGVYDVPLH NPPDAKGSRD LVDGINRLSF SSTGSTRSNM STSSTSSKES SLSASPAQDK RLFLDPDTAI ERLQRLQQAL EMGVSSLMAL VTTDWRCYGY MERHINEIRT AVDKVELFLK EYLHFVKGAV ANAACLPOLI LHNKMKRELQ RVEDSHQILS QTSHDLNECS WSLNILAINK PQNKCDLDR FVMVAKTVPD DAKQLTTTIN TNAEALFRPG PGSLSLHKNP ESIMNSTEYP HGGSQGQLLH PGDHKAQAHN KALPPGLSKE QAPDCSSSDG SERSWMDDYD YVHLQGKEEF ERQKELLEK ENIMKQNKMQ</pre>

Product Details

LEHHQLSQFQ LLEQEITKPV ENDISKWKPS QSLPTTNSGV SAQDRQLLCF YYDQCETHFI
SLLNAIDALF SCVSSAQPPR IFVAHSKFVI LSAHKLVFIG DTLTRQVTAQ DIRNKVMNSS
NQLCEQLKTI VMATKMAALH YPSTTALQEM VHQVTDLSRN AQLFKRSLLE MATF **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 mammalian 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:

NEDD9

Alternative Name:

NEDD9 ([NEDD9 Products](#))

Background:

Enhancer of filamentation 1 (hEF1) (CRK-associated substrate-related protein) (CAS-L) (CasL) (Cas scaffolding protein family member 2) (CASS2) (Neural precursor cell expressed developmentally down-regulated protein 9) (NEDD-9) (Renal carcinoma antigen NY-REN-12) (p105) [Cleaved into: Enhancer of filamentation 1 p55],FUNCTION: Scaffolding protein which plays a central coordinating role for tyrosine-kinase-based signaling related to cell adhesion (PubMed:24574519). As a focal adhesion protein, plays a role in embryonic fibroblast migration (By similarity). May play an important role in integrin beta-1 or B cell antigen receptor (BCR)

Target Details

mediated signaling in B- and T-cells. Integrin beta-1 stimulation leads to recruitment of various proteins including CRKL and SHPTP2 to the tyrosine phosphorylated form (PubMed:9020138). Promotes adhesion and migration of lymphocytes, as a result required for the correct migration of lymphocytes to the spleen and other secondary lymphoid organs (PubMed:17174122). Plays a role in the organization of T-cell F-actin cortical cytoskeleton and the centralization of T-cell receptor microclusters at the immunological synapse (By similarity). Negatively regulates cilia outgrowth in polarized cysts (By similarity). Modulates cilia disassembly via activation of AURKA-mediated phosphorylation of HDAC6 and subsequent deacetylation of alpha-tubulin (PubMed:17604723). Positively regulates RANKL-induced osteoclastogenesis (By similarity). Required for the maintenance of hippocampal dendritic spines in the dentate gyrus and CA1 regions, thereby involved in spatial learning and memory (By similarity).
{ECO:0000250|UniProtKB:A0A8I3PDQ1, ECO:0000250|UniProtKB:O35177, ECO:0000269|PubMed:17174122, ECO:0000269|PubMed:17604723, ECO:0000269|PubMed:24574519, ECO:0000269|PubMed:9020138}.

Molecular Weight: 92.9 kDa

UniProt: [Q14511](#)

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