

Datasheet for ABIN3134731

NEO1 Protein (AA 37-1493) (rho-1D4 tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	NEO1
Protein Characteristics:	AA 37-1493
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEO1 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	<p>RPASGAAATK SGPRRQSQGA SVRTFTPFFYF LVEPVDTLVS RGSSVILNCS AYSESPNIE</p> <p>WKKDGTFLNL ESDDRRQLLP DGSLFISNVV HSKHNKPDEG FYQCVATVDN LGTIVSR TAK</p> <p>LTVAGLPRFT SQPEPSSVYV GNSAILNCEV NADLVPFVRW EQNRQPLLLD DRIVKLPSGT</p> <p>LVISNATEGD GGLYRCIVES GGPPKFSDEA ELKVLQDP EE IVDLVFLMRP SSMMKVTGQS</p> <p>AVLPCVVSGL PAPVVRWMKN EEVLDTESG RLVLLAGGCL EISDVTEDDA GTYFCIADNG</p> <p>NKTVEAQ AEL TVQVPPGFLK QPANIYAHES MDIVFECEVT GKPTPTVKWW KNGDVVIPSD</p> <p>NFKIVKEHNL QVLGLVKSDE GFYQCIAEND VGNAQAGAQL ILEHDVAIP TLPPTSLTSA</p> <p>TTDHLAPATT GPLPSAPRDV VASLVSTRFI KLTWRTPASD PHGDNLTYSV FYTKEGV DRE</p> <p>RVENTSQPGE MQVTIQNLMP ATVYIFKVMA QNKHGSGESS APLRVETQPE VQLPGPAPNI</p> <p>RAYATSPTSI TVTWETPLSG NGEIQNYKLY YMEKGT DKEQ DIDVSSH SYT INGLKKYTEY</p> <p>SFRVVAYNKH GPGVSTQDVA VRTLSDVPSA APQNLSLEVR NSKSIVIHQW PPSSTTQNGQ</p> <p>ITGYKIRYRK ASRKSDVTET LVTGTQLSQL IEGLDRGTEY NFRVAALTVN GTGPATDWLS</p>
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AETFESDLDE TRVPEVPSSL HVRPLVTSIV VSWTPPENQN IVVRGYAIGY GIGSPHAQTI
KVVDYKQRYYT IENLDPSSHY VITLKAFNNV GEGIPLYESA VTRPHTDTSE VDLFVINAPY
TPVPDPTPMM PPVGVQASIL SHDTIRITWA DNSLPKHQKI TDSRYTYVRW KTNIPANTKY
KNANATTLSY LVTGLKPNTL YEFSVMVTKG RRSSTWSMTA HGATFELVPT SPPKDVTVVS
KEGKPRTIIV NWQPPSEANG KITGYIIYYS TDVNAEIDHW VIEPVVGNRL THQIQELTLD
TPYYFKIQAR NSKGMGPMSE AVQFRTPKAD SSDKMPNDQA LGSAGKGSRL PDLGSDYKPP
MSGSNSPHGS PTSPLDSNML LVIIVSVGVI TIVVVVIAV FCTRRTTSHQ KKKRAACKSV
NGSHKYKGNC KDVKPPDLWI HHERLELKPI DKSPDPNPVM TDTPIRNSQ DITPVDNSMD
SNIHQRRNSY RGHESEDSMS TLAGRRGMRP KMMMPFDSQP PQPVISAHPI HSLDNPHHHF
HSSSLASPAR SHLYHPSSPW PIGTSMMLSD RANSTESVRN TPSTDTMPAS SSQTCCTDHQ
DPEGATSSSY LASSQEEDSG QSLPTAHVRP SHPLKSFAVP AIPPPGPPLY DPALPSTPLL
SQQALEPSTF HSKVTASIGT LGRSRPPMPV VVPSAEVQE TTRMLEDSSES SYEPDELTKE
MAHLEGLMKD LNAITTA

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Neo1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use

Product Details

the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	NEO1
Alternative Name:	Neo1 (NEO1 Products)
Background:	Multi-functional cell surface receptor regulating cell adhesion in many diverse developmental processes, including neural tube and mammary gland formation, myogenesis and angiogenesis. Receptor for members of the BMP, netrin, and repulsive guidance molecule (RGM) families. Netrin-Neogenin interactions result in a chemoattractive axon guidance response and cell-cell adhesion, the interaction between NEO1/Neogenin and RGMa and RGMb induces a chemorepulsive response. {ECO:0000269 PubMed:23744777}.
Molecular Weight:	160.5 kDa Including tag.
UniProt:	P97798
Pathways:	Transition Metal Ion Homeostasis , Regulation of Muscle Cell Differentiation , 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
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Application Details

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Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)