

Recombinant Human Nogo protein ab163499

1 [References](#) 1 [Image](#)

Description

Product name	Recombinant Human Nogo protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human

Sequence	MEDLDQSPLVSSSDSPPRPQPAFKYQFVREPEDEEEEE EEEEDEDEDLE ELEVLERKPAAGLSAAPVPTAPAAGAPLMDFGNDFVPPA PRGPLPAAPPV APERQPSWDPSPVSSTVPAPSPLSAAAVSPSKLPEDDE PPARPPPPPPAS VSPQAEPVWTPPAPAPAAPPSTPAAPKRRGSSGSVDET LFALPAASEPVI RSSAENMDLKEQPGNTISAGQEDFPSVLLETAASLPSLSP LSAASFKEHE YLGNLSTVLPTEGTLQENVSEASKEVSEKAKTLLIDRDLTE FSELEYSEM GSSFSVSPKAESAVVANPREEIVKNKDEEEKLVSNILH NQQELPTAL TKLVKEDEVVSSEKAKDSFNEKRVAVEAPMREEYADFK PFERVWEVKDSK EDSDMLAAGGKIESNLESKVDKKCFADSLEQTNHEKDSE SSNDDTSFPST PEGIKDRSGAYITCAPFNPAATESIATNIFLLGDPTSENKT DEKKIEEK KAQVTEKNTSTKTSNPFLVAAQDSETDYVTTDNLTKVTEE VVANMPEGL TPDLVQEACESELNEVTGTKIAYETKMDLVQTSEVMQESL YPAAQLCPSF EESEATPSPVLPDIVMEAPLNSAVPSAGASVIQPSSSPLE ASSVNYESIK HEPENPPPYEEAMSVSLKKVSGIKEEIKEPENINAALQETE APYISIACD LIKETKLSAEPAPDFSDYSEMAKVEQVPDPHSELVEDSS
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PDSEPVDLFSD
 DSIPDVPQKQDETVMLVKESLTETSFESMIEYENKEKLSA
 LPPEGGKPYL
 ESFKLSLDNTKDTLLPDEVSTLSKKEKIPLQMEELSTAVYS
 NDDLFIKE
 AQIRETETFSDSSPIEIDEFPTLISSKTDSFSKLAREYTDLE
 VSHKSEI
 ANAPDGAGSLPCTELPHDLSLKNIQPKVEEKISFSDDFSK
 NGSATSKVLL
 LPPDVSAATQAEIESMKPKVLVKEAEKKLPDTEKEDR
 SPSAIFSAEL
 SKTSVVDLLYWRDIKKTGVVFGASLFLLLSLTVFSMSVTAY
 IALALLSV
 TISFRYKGVIAIQKSDEGHPFRAYLESEVAISEELVQKYSN
 SALGHVN
 CTIKELRRLFLVDDLVDLSLKFVLMWVFTYVGALFNGLTLL
 ILALISLFS
 VPVIYERHQAQIDHYLGLANKNVKDAMAKIQAKIPGLKRKA
 E

Amino acids	1 to 1192
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab163499** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot
	ELISA

Form	Liquid
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Additional notes

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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General Info

Function	Developmental neurite growth regulatory factor with a role as a negative regulator of axon-axon adhesion and growth, and as a facilitator of neurite branching. Regulates neurite fasciculation, branching and extension in the developing nervous system. Involved in down-regulation of growth, stabilization of wiring and restriction of plasticity in the adult CNS. Regulates the radial migration of cortical neurons via an RTN4R-LINGO1 containing receptor complex (By similarity). Isoform 2 reduces the anti-apoptotic activity of Bcl-xl and Bcl-2. This is likely consecutive to their change in
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subcellular location, from the mitochondria to the endoplasmic reticulum, after binding and sequestration. Isoform 2 and isoform 3 inhibit BACE1 activity and amyloid precursor protein processing.

Tissue specificity

Isoform 1 is specifically expressed in brain and testis and weakly in heart and skeletal muscle. Isoform 2 is widely expressed except for the liver. Isoform 3 is expressed in brain, skeletal muscle and adipocytes. Isoform 4 is testis-specific.

Sequence similarities

Contains 1 reticulon domain.

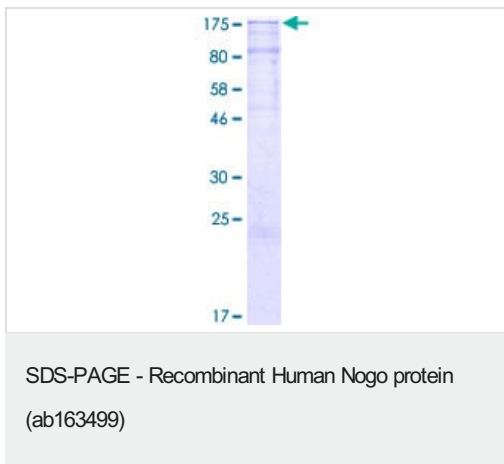
Domain

Three regions, residues 59-172, 544-725 and the loop 66 amino acids, between the two transmembrane domains, known as Nogo-66 loop, appear to be responsible for the inhibitory effect on neurite outgrowth and the spreading of neurons. This Nogo-66 loop, mediates also the binding of RTN4 to its receptor.

Cellular localization

Endoplasmic reticulum membrane. Anchored to the membrane of the endoplasmic reticulum through 2 putative transmembrane domains.

Images



ab163499 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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