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Rabbit Anti-NEP1-40 antibody

SL10509R

Product Name:	NEP1-40
Chinese Name:	Nogo-66(1-40)抗体
Alias:	Nogo extra cellular peptide residues 1-40; Nogo-66(1-40); Nogo-66(1-40) antagonist peptide; Nogo A; reticulon-4 isoform D; ASY; Foocen; Human NogoA; KIAA0886; My043 protein; Nbla00271; Nbla10545; Neurite growth inhibitor 220; Neurite Outgrowth Inhibitor; Neuroendocrine specific protein; Neuroendocrine specific protein C homolog; NI220/250; Nogo A; NOGO; Nogo protein; NogoA; NSP; NSP CL; Reticulon 4; Reticulon 5; Reticulon4; Reticulon5; RTN 4; RTN 4A; RTN X; RTN xL; RTN4 A; RTN4; RTN4 B1; RTN4 B2; RTN4 C; RTN4 protein; RTN4_HUMAN; Reticulon-4; Neuroendocrine-specific protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	22/131kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NEP1-40:1001-1100/1192
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Product Detail:	This gene belongs to the family of reticulon encoding genes. Reticulons are associated with the endoplasmic reticulum, and are involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine cells. The product of this gene is a potent neurite outgrowth inhibitor which may also help block the regeneration of the central nervous system in higher vertebrates. Alternatively spliced transcript variants derived both from differential splicing and differential promoter usage and encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]. **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 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. **Subunit:** Binds to RTN4R. Interacts with Bcl-xl and Bcl-2. Isoform 2 binds to NGBR and RTN3. Isoform 2 and isoform 3 interact with BACE1 and BACE2. Interacts with RTN4IP1. Interacts with ATL1. **Subcellular Location:** Endoplasmic reticulum membrane. Anchored to the membrane of the endoplasmic reticulum through 2 putative transmembrane domains. **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. **Similarity:** Contains 1 reticulon domain. **SWISS:** Q9NQC3 **Gene ID:** 57142 **Database links:** Entrez Gene: 57142 Human

	Entrez Gene: 68585 Mouse Entrez Gene: 83765 Rat Omim: 604475 Human SwissProt: Q9NQC3 Human SwissProt: Q99P72 Mouse SwissProt: Q9JK11 Rat Unigene: 704007 Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.