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Datasheet for ABIN674861

anti-Reticulon 4 antibody (AA 251-357) (Biotin)

Overview

Quantity:	100 µL
Target:	Reticulon 4 (RTN4)
Binding Specificity:	AA 251-357
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Reticulon 4 antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from Mouse Reticulon 4
Isotype:	IgG
Specificity:	Based on the location of the target sequence this antibody will recognize all isoforms(Nogo-A, Nogo-B, and Nogo-C).
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Dog,Sheep
Purification:	Purified by Protein A.

Target Details

Target:	Reticulon 4 (RTN4)
Alternative Name:	Reticulon 4 (RTN4 Products)
Background:	<p>Synonyms: Reticulon-4, Rtn4, Neurite outgrowth inhibitor, Nogo protein, Foccen, Neuroendocrine-specific protein, NSP, euroendocrine-specific protein C homolog, RTN-x, Reticulon-5, RTN 4A, Nogo-A, RTN-xL, RTN 4B, ASY, Nogo-B, RTN-xS, Foccen-M, RTN 4C, Nogo-C, Foccen-S, RTN4-B2, Rtn-T</p> <p>Background: Reticulons are associated with the endoplasmic reticulum, and are involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine cells. The reticulon protein is a potent neurite outgrowth inhibitor which may also help block the regeneration of the central nervous system in higher vertebrates. 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. Reticulon 4 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. It regulates the radial migration of cortical neurons via an RTN4R-LINGO1 containing receptor complex. May inhibit BACE1 activity and amyloid precursor protein processing.</p>
Gene ID:	68585
UniProt:	Q99P72
Pathways:	Neurotrophin Signaling Pathway , Regulation of Cell Size , SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	WB 1:300-5000 IHC-P 1:200-400 IHC-F 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months