

Datasheet for ABIN5009756

anti-Reticulon 4 antibody (AA 251-357) (AbBy Fluor® 680)



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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 AbBy Fluor® 680
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

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:	Synonyms: Reticulon-4, Rtn4, Neurite outgrowth inhibitor, Nogo protein, Foocen, 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, Foocen-M, RTN 4C, Nogo-C, Foocen-S, RTN4-B2, Rtn-T 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.
Gene ID:	68585
UniProt:	Q99P72
Pathways:	Neurotrophin Signaling Pathway , Regulation of Cell Size , SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
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. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months