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Datasheet for ABIN1398481
anti-RTN4IP1 antibody (AA 111-210) (Biotin)

Overview

Quantity:	100 µL
Target:	RTN4IP1
Binding Specificity:	AA 111-210
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RTN4IP1 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 human NIMP/RTN4IP1
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Pig,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	RTN4IP1
Alternative Name:	NIMP (RTN4IP1 Products)

Target Details

Background: Synonyms: mitochondrial, NIMP, NOGO interacting mitochondrial protein, NOGO-interacting mitochondrial protein, Reticulon 4 interacting protein 1, Reticulon 4 interacting protein 1, mitochondrial, Reticulon-4-interacting protein 1, RT4I1_HUMAN, Rtn4ip1, NIMP/RTN4IP1.

Background: Appears to be a potent inhibitor of regeneration following spinal cord injury. Nogo is an oligodendrocyte-specific member of the Reticulon family and is a component of CNS white matter that inhibits axon outgrowth, induces collapse of growth cones of chick dorsal root ganglion cells, and inhibits the spreading of 3T3 fibroblasts. Nogo is expressed by oligodendrocytes but not by Schwann cells, and associates primarily with the endoplasmic reticulum. Nogo exists in three different splice forms, Nogo-A, -B and -C. NIMP (NOGO-interacting mitochondrial protein), also known as RTN4IP1 (Reticulon-4-interacting protein 1), is a 396 amino acid mitochondrial protein that contains a C-terminal oxidoreductase-like domain and numerous sites for phosphorylation. NIMP is expressed in mitochondrial-rich tissue such as kidney, heart, skeletal muscle and specific regions within the nervous system. Through interaction with Nogo, it is likely that NIMP plays a role in Nogo-induced inhibition of neurite growth. There are three isoforms of NIMP that are produced as a result of alternative splicing events.

Gene ID: 84816

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

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

Storage: -20 °C

Storage Comment: Store at -20°C for 12 months.

Expiry Date: 12 months