

Datasheet for ABIN1416352

## **anti-RTN4IP1 antibody (AA 111-210) (HRP)**



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### Overview

|                      |                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                                           |
| Target:              | RTN4IP1                                                                                                                                          |
| Binding Specificity: | AA 111-210                                                                                                                                       |
| Reactivity:          | Mouse                                                                                                                                            |
| Host:                | Rabbit                                                                                                                                           |
| Clonality:           | Polyclonal                                                                                                                                       |
| Conjugate:           | This RTN4IP1 antibody is conjugated to HRP                                                                                                       |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)),<br>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 ( <a href="#">RTN4IP1 Products</a> ) |

## Target Details

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | <p>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.</p> <p>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.</p> |
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| Gene ID: | 84816 |
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## Application Details

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|--------------------|-----------------------------------------------------|
| Application Notes: | WB 1:300-5000<br>IHC-P 1:200-400<br>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

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|                  |                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------|
| Handling Advice: | Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase. |
| Storage:         | -20 °C                                                                                               |
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.                    |
| Expiry Date:     | 12 months                                                                                            |