

Datasheet: AHP1799

**BATCH NUMBER 173022**

|                      |                                      |
|----------------------|--------------------------------------|
| <b>Description:</b>  | RABBIT ANTI HUMAN NOGOA (N-TERMINAL) |
| <b>Specificity:</b>  | NOGOA (N-TERMINAL)                   |
| <b>Format:</b>       | Purified                             |
| <b>Product Type:</b> | Polyclonal Antibody                  |
| <b>Isotype:</b>      | Polyclonal IgG                       |
| <b>Quantity:</b>     | 0.1 mg                               |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                                | Yes | No | Not Determined | Suggested Dilution |
|--------------------------------|-----|----|----------------|--------------------|
| Immunohistology - Paraffin (1) | ▪   |    |                | 2.5ug/ml           |
| Western Blotting               | ▪   |    |                | 0.5 - 1.0ug/ml     |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.**

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Antiserum Preparation

Antisera to human NogoA were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.

### Buffer Solution

Phosphate buffered saline

|  |  |
|--|--|
| <b>Preservative Stabilisers</b>          | 0.02% Sodium Azide (NaN <sub>3</sub> )   |
| <b>Approx. Protein Concentrations</b>    | IgG concentration 1.0mg/ml   |
| <b>Immunogen</b>                         | Synthetic peptide sequence corresponding to a 23 amino acid sequence from near the carboxy terminus of Human NogoA   |
| <b>External Database Links</b>           | <p><b>UniProt:</b><br/> <a href="#">Q9NQC3</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">57142</a>    RTN4    <a href="#">Related reagents</a></p>   |
| <b>Synonyms</b>                          | KIAA0886, NOGO   |
| <b>RRID</b>                              | AB_10612769  |
| <b>Specificity</b>                       | <p><b>Rabbit anti Human NOGOA antibody</b> recognizes human Reticulon-4 (RTN4), also known as NogoA, neurite outgrowth inhibitor, Foccen, Neuroendocrine-specific protein, Neuroendocrine-specific protein C homolog, Reticulon-5 or RTN-x. NogoA is a 1192 amino acid multi pass transmembrane protein associated with the endoplasmic reticulum, a member of a family of integral membrane proteins termed reticulons. Six isoforms of NogoA can be generated by alternative splicing, the canonical isoform 1 is predominantly expressed in the brain and testis with weaker expression in the heart and skeletal muscle.</p> <p>Reticulons are involved in various neurodegenerative diseases such as Amyotrophic lateral sclerosis, and multiple sclerosis (<a href="#">Chiurchiù et al. 2014</a>). Reticulon proteins have been demonstrated to regulate many cellular processes and interact with multiple proteins and receptors such as <a href="#">BACE</a>. NogoA was initially identified as a myelin-associated neurite outgrowth inhibitor (<a href="#">Niederöst et al. 2002</a>). NogoA is highly expressed in oligodendrocytes in the white matter of the CNS (<a href="#">Kuhlmann et al. 2008</a>). Blocking NogoA activity with antibodies or other factors results in improved long distance axonal regeneration and functional recovery in experimental CNS lesion models (<a href="#">Schwab 2004</a>).</p> <p>NOGOA has a predicted molecular weight of 130 kDa however, despite its predicted molecular weight, NogoA typically migrates at ~180 kDa in an SDS-PAGE. Rabbit anti human NOGOA antibody is expected to recognize all isoforms of NogoA.</p> |
| <b>Histology Positive Control Tissue</b> | Mouse brain  |
| <b>Western Blotting</b>                  | AHP1799 detects a band of approximately 180 kDa in Mouse Brain tissue lysate.  |
| <b>References</b>                        | <ol style="list-style-type: none"> <li>Dann, A. <i>et al.</i> (2011) Cytosolic RIG-I-like helicases act as negative regulators of sterile inflammation in the CNS. <a href="#">Nat Neurosci. 15: 98-106.</a></li> <li>Gerondopoulos, A. <i>et al.</i> (2014) Rab18 and a Rab18 GEF complex are required for</li> </ol>   |

normal ER structure. [J Cell Biol. 205 \(5\): 707-20.](#)

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**Further Reading**

1. Chen, M.S. *et al.* (2000) Nogo-A is a myelin-associated neurite outgrowth inhibitor and an antigen for monoclonal antibody IN-1. [Nature. 403 \(6768\): 434-9.](#)
2. Dupuis, L. *et al.* (2002) Nogo provides a molecular marker for diagnosis of amyotrophic lateral sclerosis. [Neurobiol Dis. 10 \(3\): 358-65.](#)
3. Yan, R. *et al.* (2006) Reticulon proteins: emerging players in neurodegenerative diseases. [Cell Mol Life Sci. 63 \(7-8\): 877-89.](#)
4. Schweigreiter, R. & Bandtlow, C.E. (2006) Nogo in the injured spinal cord. [J Neurotrauma. 23 \(3-4\): 384-96.](#)

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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/AHP1799>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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