



## Product Information Sheet

### **Polyclonal Anti-NOGO-A (Magnetic Bead Conjugate)**

**Catalogue No.** PA1060-M

**Lot No.** 03C01

**Ig type:** rabbit IgG1

**Size:** 100µg/Vial

**Specificity**

Human, mouse, rat.

No cross reactivity with other proteins.

**Recommended application**

*Immunoprecipitation (IP)*

**Immunogen**

A synthetic peptide corresponding to the C-terminal of human Nogo-A, identical to the related mouse sequence.

**Purification**

Immunogen affinity purified

**Contents**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Storage**

Store at 4°C for frequent use.

**Description:**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

#### **BACKGROUND**

Human neurite outgrowth inhibitor (NOGO) cDNAs encodes 3 splice variants: NOGOA, NOGOB and NOGOC. The longest cDNA, designated NOGOA, has an open reading frame of 1192 amino acids. It is a potent inhibitor of neurite growth and an IN-1 antigen produced by oligodendrocytes, and may allow the generation of new reagents to enhance CNS regeneration and plasticity. Nogo-A, a member of the Reticulon family, is expressed by oligodendrocytes and associates primarily with the endoplasmic reticulum. The acidic amino terminus of Nogo-A is detected at the cytosolic face of cellular membranes and may contribute to inhibition of axon regeneration at sites of oligodendrocyte injury. A multivalent form of the N terminus of Nogo-A affects the morphology of both neurons and other cell types.

#### **REFERENCE**

1. Prinjha R, Moore SE, Vinson M, Blake S, Morrow R, Christie G, Michalovich D, Simmons DL, Walsh FS. Inhibitor of neurite outgrowth in humans. *Nature*. 2000 Jan 27; 403(6768):383-4.
2. Chen MS, Huber AB, van der Haar ME, Frank M, Schnell L, Spillmann AA, Christ F, Schwab ME. Nogo-A is a myelin-associated neurite outgrowth inhibitor and an antigen for monoclonal antibody IN-1. *Nature*. 2000 Jan 27; 403(6768):434-9.
3. GrandPre T, Nakamura F, Vartanian T, Strittmatter SM. Identification of the Nogo inhibitor of axon regeneration as a Reticulon protein. *Nature*. 2000 Jan 27; 403(6768):439-44.
4. Fournier AE, GrandPre T, Strittmatter SM. Identification of a receptor mediating Nogo-66 inhibition of axonal regeneration. *Nature*. 2001 Jan 18; 409(6818):341-6.

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