Polyclonal Anti-NOGO-A (Sepharose Bead Conjugate)

Catalogue No. PA1060-S

Lot No. 03C01

Ig type: rabbit IgG

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.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN_3a_3 preservative.

Storage

Store at 4˚C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

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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