Mouse Nogo-B Antibody

Monoclonal Rat IgG_{2B} Clone # 523808

Catalog Number: MAB6596

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Nogo-B in direct ELISAs. In direct ELISAs, less than 25% cross-reactivity with recombinant human (rh) Nogo-B and recombinant rat Nogo-A and no cross-reactivity with rhNogo-A is observed.
Source	Monoclonal Rat IgG_{2B} Clone # 523808
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Nogo-B. Met1-Ile183 (predicted) Accession # Q99P72
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

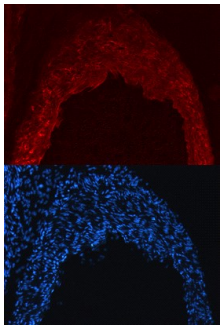
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



Nogo-B in Mouse Heart. Nogo-B was detected in immersion fixed frozen sections of adult mouse heart using Mouse Nogo-B Monoclonal Antibody (Catalog # MAB6596) at 10 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red, upper panel; Catalog # NL013) and counterstained with DAPI (blue, lower panel). Specific staining was localized to cardiac outflow tract. View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Nogo-B, also known as ASY, is a 55 kDa splice form of Nogo-A/Reticulon-4 and is primarily expressed in vascular endothelial cells. Nogo-A contains a large N-terminal cytoplasmic domain and a reticulon region that consists of two transmembrane segments with an intervening noncytoplasmic domain. Nogo-B lacks most of the N-terminal domain but retains the reticulon domain. It inhibits neointimal hyperplasia in the vasculature and is downregulated in atherosclerotic tissue and thoracic arterial aneurisms. Interaction of Nogo-B with NgBR promotes endothelial cell proliferation and migration. Within aa 1-183, mouse Nogo-B shares 76% and 94% aa sequence identity with human and rat Nogo-B, respectively.

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