

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Nogo-C in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) Nogo-A or rhNogo-B is observed.
Source	Monoclonal Mouse IgG ₃ Clone # 499825
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human Nogo-C synthetic peptide MDGQKKNWKDKVVD Accession # NP_008939
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS and NaCl with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or 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	Immersion fixed paraffin-embedded sections of human skeletal muscle

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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. <ul style="list-style-type: none"> 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 belongs to the reticulon family of transmembrane proteins, which lack an N-terminal signal sequence and possess a 200 amino acid (aa) C-terminus that contains two transmembrane domains with an ER-retention motif. They show punctate intracellular distribution within the ER that is reminiscent of a reticulum. The five Nogo isoforms vary from 199 aa (Nogo-C) to 1192 aa (Nogo-A; also called reticulon-4) in humans. Nogo-B or -C may form complexes with Nogo-A, and all may be expressed in neurons, endothelial cells, oligodendrocytes, fibroblasts and myoblasts. Of 11 aa unique to the N-terminus of human Nogo-C, 9 and 10 aa are identical in mouse and rat Nogo-C, respectively.