

DESCRIPTION

Species Reactivity	Human
Specificity	Detects Nogo-C in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) Nogo-A and rhNogo-B is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	11 aa unique to the N-terminus of human Nogo-C synthetic peptide
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

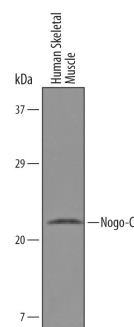
APPLICATIONS

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
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

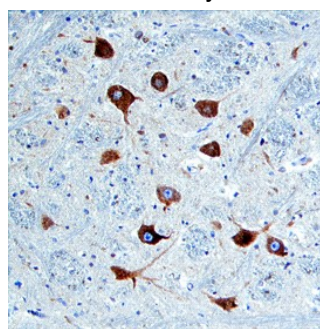
DATA

Western Blot



Detection of Human Nogo-C by Western Blot. Western blot shows lysates of human skeletal muscle. PVDF Membrane was probed with 1 µg/mL of Human Nogo-C Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5766) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Nogo-C at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Immunohistochemistry



Nogo-C in Human Brain. Nogo-C was detected in immersion fixed paraffin-embedded sections of human brain (medulla) using Human Nogo-C Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5766) at 10 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 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. <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 (Nogo-C) to 1192 (Nogo-A; also called reticulon-4) aa 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.