

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LINGO-1 in direct ELISAs and Western blots. In direct ELISAs, less than 10% cross-reactivity with recombinant human LINGO-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human LINGO-1 Thr40-Thr556 Accession # NP_116197
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.

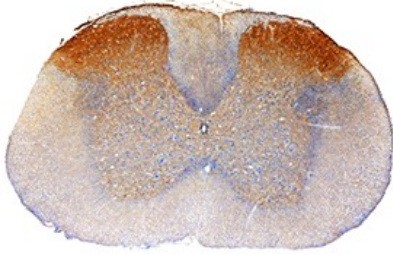
APPLICATIONS

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	0.1 µg/mL	Recombinant Human LINGO-1
Immunohistochemistry	1.7-15 µg/mL	See Below

DATA

Immunohistochemistry



LINGO-1 in Mouse Spinal Cord. LINGO-1 was detected in perfusion fixed frozen sections of mouse spinal cord using Goat Anti-Human LINGO-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3086) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to the dorsal horn. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

LINGO-1 (LRRN6A) is a 614 aa transmembrane protein of the leucine-rich repeat (LRR) family, ribonuclease inhibitor subfamily. The four known LINGO proteins contain LRR and IgCAM domains in the extracellular portion and share 44-61% aa identity. LINGO-1 is restricted to the nervous system and is concentrated in the brain as a component of the NgR1/p75 and NgR1/Taj (TROY) signaling complexes. LINGO-1 negatively regulates neurite outgrowth and myelination. LINGO-1 is highly conserved, showing 99% aa identity between human, mouse and rat.