NEUROMICS

Lingo-1 Data Sheet

Catalog Number:	GT15170	**Host:**	Goat
Product Type:	Affinity purified	**Species Reactivity:**	Human, Mouse and Rat
Immunogen Sequence:	Purified, NS0-derived, recombinant human LINGO-1 (rhLINGO-1; aa 40 - 556; Accession # AAH11057).	**Format:**	Liquid 1mg/ml Solution in phosphate-buffered saline (PBS).
Applications:	Imuunohistochemistry: 10 µg/mL Western Blot: 0.1 - 0.2 µg/mL ELISA: 0.5 - 1.0 µg/mL		

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*

Application Notes

Specificity
LINGO-1, also known as Leucine-rich repeat neuronal 6A (LRRN6A), is a 614 amino acid (aa) type I transmembrane protein with extracellular leucine-rich repeats (LRR) and an Ig CAM cell adhesion molecule motif. The four known LINGO proteins 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.

This antibody was selected for its ability to recognize human LINGO-1 in the applications listed below. In direct ELISAs and western blots, this antibody shows less than 5% cross-reactivity wth rhLINGO-2.

Direct ELISA
This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human LINGO-1. The detection limit for rhLINGO-1 is approximately 0.5 ng/well.

Western blot
This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human LINGO-1. The detection limit for rhLINGO-1 is approximately 1 ng/lane under non-reducing and reducing conditions.

Immunohistochemistry
This antibody has been used at a concentration of 10 µg/mL to detect human LINGO-1 in mouse and rat spinal cord tissues. Cells were fixed with PBS containing 4% paraformaldehyde for 20 minutes at room temperature and blocked with PBS containing 10% normal donkey serum, 0.1% Triton X-100, and 1% BSA for 45 minutes at room temperature. After blocking, cells were incubated with diluted primary antibody overnight at 4° C followed by Rhodamine Red-coupled anti-goat IgG at room temperature in the dark for one hour. Between each step, cells were washed with PBS containing 0.1% BSA.

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www.neuromics.com

Neuromics • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail pshuster@neuromics1.com