

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human LINGO-2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human LINGO-1 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 382007
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human LINGO-2 Cys28-Leu542 Accession # Q7L985
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	Recombinant Human LINGO-2 under non-reducing conditions only
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	Immersion fixed A549 human lung carcinoma cell line
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

**DATA**

**Flow Cytometry**

**Detection of LINGO-2 in A549 Human Cell Line by Flow Cytometry.** A549 human lung carcinoma cell line was stained with Human LINGO-2 Monoclonal Antibody (Catalog # MAB36791, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG F(ab')<sub>2</sub> Secondary Antibody (Catalog # F0101B).

**Flow Cytometry**

**Detection of LINGO-2 in HEK293 Human Cell Line Transfected with Human LINGO-2 and eGFP by Flow Cytometry.** HEK293 human embryonic kidney cell line either (A) transfected with human LINGO-2 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human LINGO-2 Monoclonal Antibody (Catalog # MAB36791) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB003).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Human LINGO-2 (LRR and Ig domain-containing, Nogo Receptor-interacting protein 2; also known as Leucine-rich repeat neuronal 6C (LRRN6C) or LERN3), type I transmembrane protein in the neuronal leucine-rich repeat family. These proteins have a signal peptide, 12 extracellular leucine-rich repeats flanked by N-terminal and C-terminal cysteine-rich sequences, an immunoglobulin-like domain, a transmembrane domain and a short cytoplasmic tail. An alternate start site may exist at Met148 of the precursor. Human LINGO-2 is a highly conserved, 606 amino acid protein that shares 99% and 98% aa sequence identity with canine and mouse LINGO-2, respectively. LINGO-2 presumably functions outside the CNS with little involvement by p75<sup>Nrg1</sup>.