

DESCRIPTION

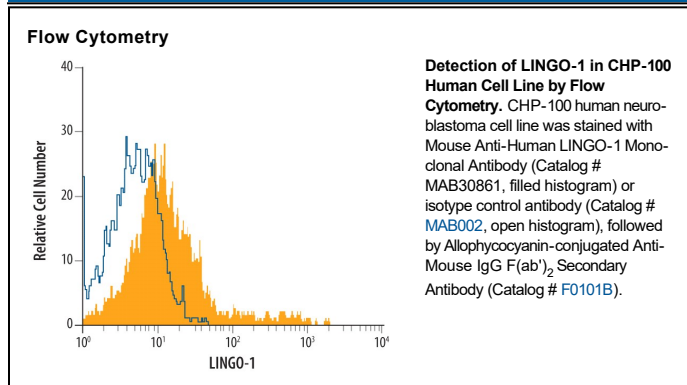
Species Reactivity	Human
Specificity	Detects human LINGO-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant human (rh) LINGO-2 is observed and no cross-reactivity with rhLINGO-3 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 332237
Purification	Protein A or G purified from hybridoma culture supernatant
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
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
Immunocytochemistry	8-25 µg/mL	Immersion fixed CHP-100 human neuroblastoma cell line
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



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

LINGO-1 (LRRN6A) is a 614 amino acid (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 sequence 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 sequence identity between human, mouse and rat.