Human/Mouse/Rat LAR Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3004

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat LAR in Western blots. In Western blots, this antibody detects both full-length protein and the cleaved LAR extracellular (E) domain. The antibody does not cross react with PTPRσ.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human LAR Ala27-Glu1251 Accession # NP_569707
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.

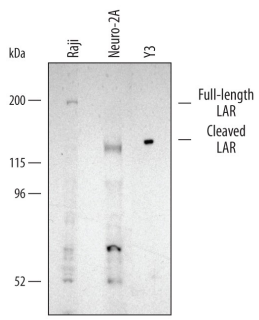
APPLICATIONS

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

DATA

Western Blot



Detection of Human/Mouse/Rat LAR by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line, Neuro-2A mouse neuroblastoma cell line, and Y3-Ag rat myeloid cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse/Rat LAR Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3004) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). Bands were detected for LAR at approximately 207 kDa for full-length LAR and 139 kDa for cleaved LAR (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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.** ● 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

Leucocyte Antigen-Related (LAR) tyrosine phosphatase, also known as Protein Tyrosine Phoshatase, Receptor-type F (PTPRF), is an integral membrane protein with a non-glycosylated molecular weight of 207 kDa. The extracellular domain is cleaved near the cell membrane by a subtilisin-like endoprotease to a molecular weight of 139 kDa. Depending on cellular conditions, the extracellular domain may remain associated with the rest of the molecule or can be shed into the extracellular medium. This antibody was made against the extracellular domain of LAR and detects both full-length and cleaved LAR.

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