

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LAX1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human LAX1 isoform 1 Asn136-Glu398 Accession # Q8IWV1
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
Intracellular Staining by Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Western Blot</p> <p>Detection of Human LAX1 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line and K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human LAX1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4706) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for LAX1 at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Intracellular Staining by Flow Cytometry</p> <p>Detection of LAX1 in Jurkat Human Cell Line by Flow Cytometry. Jurkat human acute T cell leukemia cell line were stained with Goat Anti-Human LAX1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4706, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.</p>
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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

LAX1 (Linker for activation of X cells) is a 70 kDa member of a small group of T cell transmembrane (TM) adaptor proteins. It is upregulated on both T and B cells after activation, and likely downmodulates both BCR and TCR signaling. Human LAX1 is 398 amino acids (aa) in length. Although its predicted MW is 44 kDa, it runs anomalously at 70 kDa in SDS-PAGE. It is a type III (no signal sequence) TM protein that contains a 37 aa N-terminal extracellular region and a 340 aa cytoplasmic domain (aa 59-398). There are two potential isoform variants. One has an alternate start site at Met77, while a second shows a 13 aa substitution for aa 1-29. Over aa 136-398, human LAX1 is 47% aa identical to mouse LAX1.