

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LAIR2 in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant human LAIR1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human LAIR2 Gln22-Pro152 Accession # Q6ISS4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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	0.1 µg/mL	Recombinant Human LAIR2 (Catalog # 2665-LR)
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	Jurkat human acute T cell leukemia cell line fixed with paraformaldehyde and permeabilized with saponin

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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

LAIR-2 (leukocyte-associated Ig-like receptor-2; CD306) is a secreted, 131 amino acid (aa) protein that contains one Ig-like C2 type domain, making it a member of the Ig superfamily. When compared to LAIR-1, its transmembrane counterpart, it shares 83% aa identity across the signal sequence and extracellular domains; (1-3) although one is secreted and one is membrane-bound, the two LAIR proteins are thought to have arisen from a common gene ancestor and appear to share similar adhesion profiles. This suggests that LAIR-2 may compete with LAIR-1 for ligand binding (3, 4). A 114 aa alternate splice form of LAIR-2 is truncated at the C-terminus, but retains the entire Ig domain (1-3). The expression profile of these splice forms, and the presence of orthologs in other species, have not been reported.

References:

1. Meyaard, L. (2003) *J. Biol. Regul. Homeost. Agents* **17**:330.
2. Meyaard, L. *et al.* (1999) *J. Immunol.* **162**:5800.
3. Meyaard, L. *et al.* (1997) *Immunity* **7**:283.
4. Xu, X.G. *et al.* (2005) *Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi.* **21**:553.