

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LAIR2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human LAIR1, recombinant mouse (rm) LAIR1 or rmLAIR2 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 319701
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human LAIR2 isoform 1 Gln22-Pro152 Accession # Q6ISS4
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	Jurkat human acute T cell leukemia cell line fixed with paraformaldehyde and permeabilized with saponin

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

LAIR2 (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 LAIR1, 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 LAIR2 may compete with LAIR1 for ligand binding (3, 4). A 114 aa alternate splice form of LAIR2 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.

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