Human LAIR1
Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 342219

Catalog Number: FAB2664T

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LAIR1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human LAIR2 or recombinant mouse LAIR1 is observed.
Source	Monoclonal Mouse IgG_{2B} Clone # 342219
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human LAIR1 isoform 1 Gln22-His163 Accession # Q6GTX8
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. *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
Flow Cytometry	0.25-1 µg/10^6 cells	Human whole blood lymphocytes

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.** • 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Leukocyte-associated Ig-like receptor-1 (LAIR1; also CD305) is a 46 kDa inhibitory receptor belonging to the Ig superfamily. It is a type I transmembrane protein with one extracellular Ig-like domain and two cytoplasmic ITIMs. Four LAIR-1 splice variants exist. LAIR1b has a 17 aa deletion outside the Ig loop in the extracellular domain. It differs from LAIR1c by one aa residue. LAIR1d has a 77 aa truncation in the cytoplasmic domain. LAIR1 is expressed on NK cells, T cells, B cells, monocytes, dendritic cells and most thymocytes. The extracellular domain of human LAIR1 shares 40% aa identity with that of the mouse protein.

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