

Human LILRA4/CD85g/ILT7 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 656688

Catalog Number: FAB6287R

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LILRA4/CD85g/ILT7 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) LILRA5, rhILT2, 3, 4, 5, or 6 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 656688
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human LILRA4/CD85g/ILT7 Glu24-Asn446 Accession # P59901
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Human peripheral blood monocytes

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

LILRA4, also known as ILT7 and CD85g, is a 499 amino acid (aa) type I transmembrane glycoprotein that contains four Ig-like domains in its extracellular region. LILRA4 is selectively expressed on plasmacytoid dendritic cells (pDC). It binds to BST2/CD317 on bone marrow stromal cells and associates with the gamma subunit of Fc epsilon RI. This receptor complex transmits signals that inhibit the TLR-induced production of type I interferon. The LILRA4-mediated interactions between pDC and tumor cells similarly inhibit the production of proinflammatory cytokines and contribute to reduced anti-tumor immune responses. Alternate splicing of human LILRA4 generates an isoform that lacks the N-terminal 43 aa of the extracellular domain.

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