Human LILRA4/CD85g/ILT7 Antibody

Monoclonal Mouse IgG_{2A} Clone # 656688

Catalog Number: MAB6287

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
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 as a 0.2 μm filtered solution in PBS.

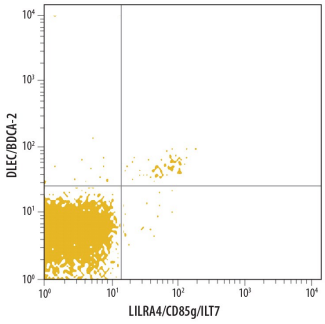
APPLICATIONS

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
Flow Cytometry	2.5 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

Flow Cytometry



Detection of LILRA4/CD85g/ILT7 in Human PBMCs by Flow Cytometry. Human peripheral blood monocytes were labeled with Mouse Anti-Human LILRA4/CD85g/ILT7 Monoclonal Antibody (Catalog # MAB6287) followed by Allophycocyanin-conjugated Anti-Mouse IgG $F(ab')_2$ Secondary Antibody (Catalog # F0101B) and Human DLEC/CLEC4C/BDCA-2 Fluorescein-conjugated Polyclonal Antibody (Catalog # FAB1376F). Quadrant markers were set based on control antibody staining (Catalog # MAB003).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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.** ● 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

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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