

DESCRIPTION

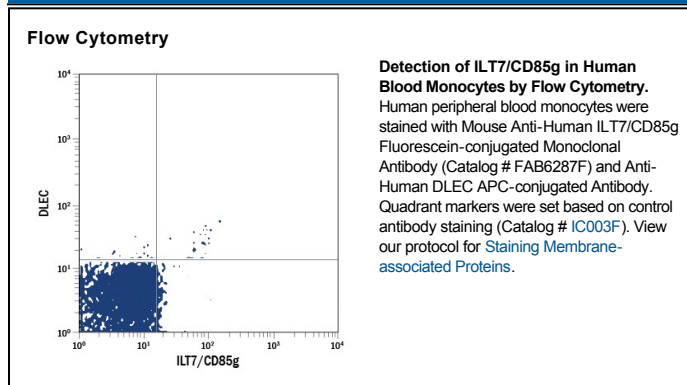
Species Reactivity	Human
Specificity	Detects human ILT7/CD85g in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) LILRA5, rhILT2, 3, 4, 5, or 6 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 656688
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ILT7/CD85g Glu24-Asn446 Accession # P59901
Conjugate	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm (FITC)
Formulation	Supplied 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	10 μ L/10 ⁶ cells	See Below

DATA



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

ILT7, also known as LILRA4 and CD85g, is a 499 amino acid (aa) type I transmembrane glycoprotein that contains four Ig-like domains in its extracellular region. ILT7 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 ILT7-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 ILT7 generates an isoform that lacks the N-terminal 43 aa of the extracellular domain.