

DESCRIPTION

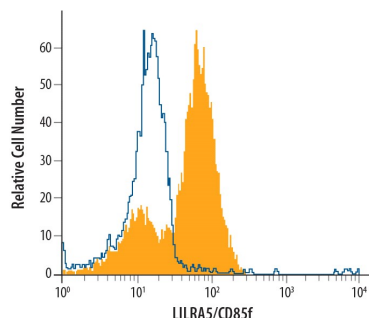
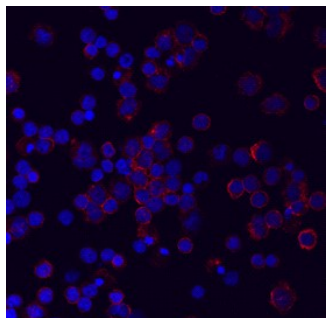
Species Reactivity	Human
Specificity	Detects human LILRA5/CD85f in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse ILT11/LILRA5, recombinant rat (rr) ILT11/LILRA5, rrLILRC2, recombinant human (rh) ILT4/CD85d, rhILT5/CD85a, or rhILT3/CD85k is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 711828
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human LILRA5/CD85f Gly42-Arg268 Accession # A6NI73
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 either lyophilized or 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
Immunocytochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Flow Cytometry</p>  <p>Detection of LILRA5/CD85f in Human Blood Monocytes by Flow Cytometry. Human peripheral blood monocytes were stained with Mouse Anti-Human LILRA5/CD85f Monoclonal Antibody (Catalog # MAB6754, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).</p>	<p>Immunocytochemistry</p>  <p>LILRA5/CD85f in Human PBMCs. LILRA5/CD85f was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using Mouse Anti-Human LILRA5/CD85f Monoclonal Antibody (Catalog # MAB6754) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to surface. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
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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. <ul style="list-style-type: none"> ● 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

ILT11 (also leukocyte immunoglobulin-like receptor 9 (LIR-9), CD85f, and LILRA5) is a 39-40 kDa Group 2 member of the LILR family of innate immune receptors. It is expressed on monocytes and perhaps neutrophils, and its activation results in the secretion of proinflammatory cytokines such as TNF-α and IL-1β. Mature human ILT11 is a 258 amino acid (aa) type I transmembrane glycoprotein. It has a 227 aa extracellular domain (aa 42-268) that contains two C2-type Ig-like domains (aa 51-136 and 142-230), and a 10 aa cytoplasmic tail. ILT11 has three potential splice forms. One is a 35 kDa soluble form of the molecule described above that shows a 27 aa substitution for aa 239-299. The other two splice forms are analogous to the above membrane and soluble forms, but demonstrate signal sequence cleavage further downstream after Ala51. Over aa 41-268, human ILT11 shares 58% aa identity with mouse ILT11.