

Datasheet for ABIN1774726

**anti-LILRB1 antibody**

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## Overview

Quantity:	0.1 mg
Target:	LILRB1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LILRB1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP), Functional Studies (Func)

## Product Details

Immunogen:	Hairy cell leukaemia cells
Clone:	GHI-75
Isotype:	IgG2b kappa
Specificity:	The mouse monoclonal antibody GHI/75 recognizes an extracellular epitope of CD85j / ILT2, an 110-120 kDa membrane glycoprotein expressed strongly on plasma cells, moderately on circulating B cells, and weakly on monocytes. It is also expressed on T cell and NK cell subsets (variable, individual).
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

## Product Details

Endotoxin Level: Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.

## Target Details

Target: LILRB1

Alternative Name: CD85j / ILT2 ([LILRB1 Products](#))

Background: Leukocyte immunoglobulin like receptor B1,CD85j, also known as ILT-2 (Ig-like transcript 2), LIR-1 (leukocyte Ig-like receptor 1), or LILRB1 (leukocyte Ig-like receptor B1), is a member of Ig superfamily transmembrane glycoproteins named CD85. The CD85j protein is expressed on several types of immune cells (plasma cells, B cells, monocytes, T and NK cell subsets) where it binds to MHC class I molecules on antigen-presenting cells and transduces a negative signal that inhibits stimulation of an immune response. It is thought to control inflammatory responses and cytotoxicity to help focus the immune response and limit autoreactivity.,ILT2, LIR1, MIR7, PIRB, ILT-2

Gene ID: 10859

UniProt: [Q8NHL6](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#)

## Application Details

Application Notes: Functional application: Blocking of HLA-G induced TGF-beta1 production.  
Flow cytometry: Recommended dilution: 1-4 μg/mL

Restrictions: For Research Use only

## Handling

Concentration: 1 mg/mL

Buffer: Phosphate buffered saline (PBS), pH 7.4

Preservative: Azide free

Handling Advice: **Do not freeze.**

Storage: 4 °C

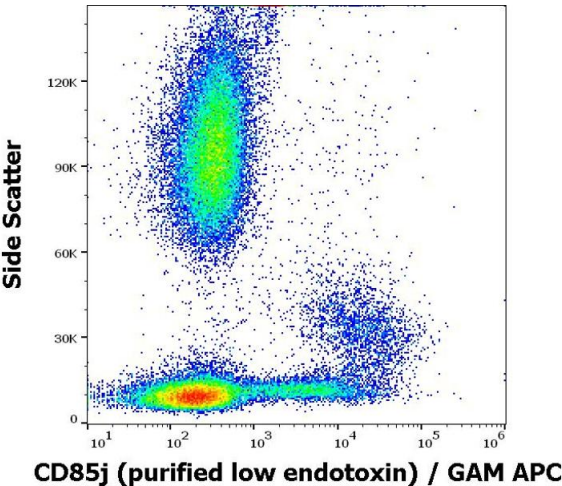
Storage Comment: Store at 2-8°C. Do not freeze.

Product cited in: Lo Monaco, Tremante, Cerboni, Melucci, Sibilio, Zingoni, Nicotra, Natali, Giacomini: "Human leukocyte antigen E contributes to protect tumor cells from lysis by natural killer cells." in: **Neoplasia (New York, N.Y.)**, Vol. 13, Issue 9, pp. 822-30, (2011) ([PubMed](#)).

Riteau, Menier, Khalil-Daher, Martinozzi, Pla, Dausset, Carosella, Rouas-Freiss: "HLA-G1 co-expression boosts the HLA class I-mediated NK lysis inhibition." in: **International immunology**, Vol. 13, Issue 2, pp. 193-201, (2001) ([PubMed](#)).

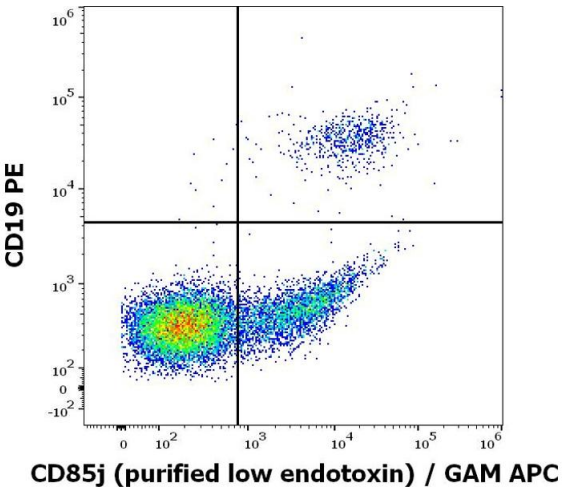
Banham, Colonna, Cella, Micklem, Pulford, Willis, Mason: "Identification of the CD85 antigen as ILT2, an inhibitory MHC class I receptor of the immunoglobulin superfamily." in: **Journal of leukocyte biology**, Vol. 65, Issue 6, pp. 841-5, (1999) ([PubMed](#)).

Images



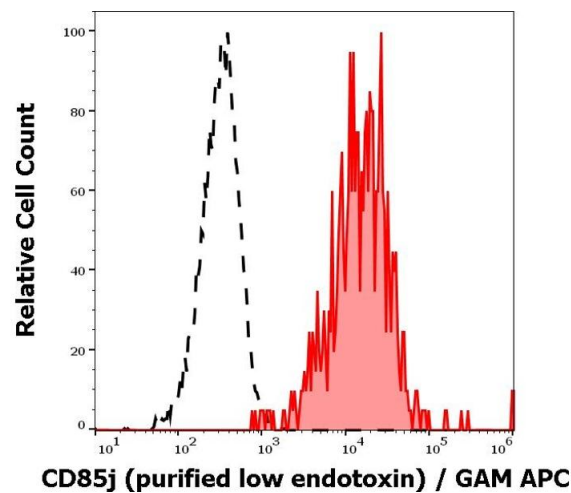
Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD85j(GHI/75) purified antibody (low endotoxin, concentration in sample 1 µg/mL) GAM APC.



Flow Cytometry

**Image 2.** Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD85j (GHI/75) purified antibody (low endotoxin, concentration in sample 1 µg/mL) GAM APC and anti-human CD19 (LT19) PE antibody (20 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

**Image 3.** Separation of human CD85j positive B cells (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD85j(GHI/75) purified antibody (low endotoxin, concentration in sample 1 µg/mL) GAM APC.