Datasheet for ABIN1774728

anti-LILRB1 antibody (PE)

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Overview

Quantity:	100 tests
Target:	LILRB1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LILRB1 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

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 antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:	**Do not freeze.** Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

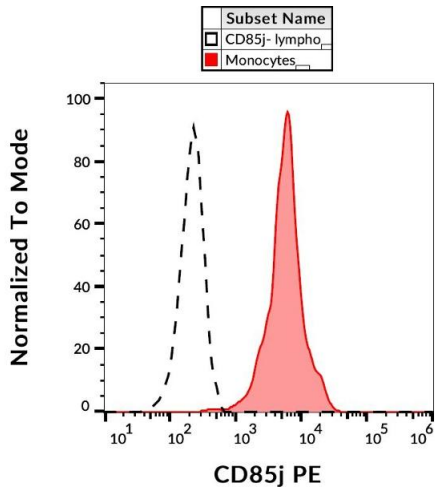
Product cited in:

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 analysis (surface staining) of CD85j on human peripheral blood cells with anti-CD85j (GHI/75) PE.