

1P-740-T025

## Monoclonal Antibody to CD85j / ILT2 Phycoerythrin (PE) conjugated (25 tests)

<b>Clone:</b>	GHI/75
<b>Isotype:</b>	Mouse IgG2b
<b>Specificity:</b>	The mouse monoclonal antibody GHI/75 recognizes 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).
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Hairy cell leukaemia cells
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	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.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.25 ml) is sufficient for 25 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.
<b>References:</b>	*Pulford K, Micklem K, Thomas J, Jones M, Mason DY: A 72-kD B cell-associated surface glycoprotein expressed at high levels in hairy cell leukaemia and plasma cell neoplasms. <i>Clin Exp Immunol.</i> 1991 Sep;85(3):429-35. *Banham AH, Colonna M, Cella M, Micklem KJ, Pulford K, Willis AC, Mason DY: Identification of the CD85 antigen as ILT2, an inhibitory MHC class I receptor of the immunoglobulin superfamily. <i>J Leukoc Biol.</i> 1999 Jun;65(6):841-5. *Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995). *Lo Monaco E, Tremante E, Cerboni C, Melucci E, Sibilio L, Zingoni A, Nicotra MR, Natali PG, Giacomini P: Human leukocyte antigen E contributes to protect tumor cells from lysis by natural killer cells. <i>Neoplasia.</i> 2011 Sep;13(9):822-30. *Riteau B, Menier C, Khalil-Daher I, Martinuzzi S, Pla M, Dausset J, Carosella ED, Rouas-Freiss N: HLA-G1 co-expression boosts the HLA class I-mediated NK lysis inhibition. <i>Int Immunol.</i> 2001 Feb;13(2):193-201.

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