



11-740-C100

Monoclonal Antibody to CD85j / ILT2 Purified Antibody (0.1 mg)

Clone:	GHI/75
Isotype:	Mouse IgG2b
Specificity:	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).
Regulatory Status:	RUO
Immunogen:	Hairy cell leukaemia cells
Species Reactivity:	Human
Application:	Flow Cytometry Immunoprecipitation Western Blotting Functional Application blocking HLA-G induced TGF-beta1 production
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

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Antibodies

- References:**
- *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. *Clin Exp Immunol.* 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. *J Leukoc Biol.* 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. *Neoplasia.* 2011 Sep;13(9):822-30.
 - *Riteau B, Menier C, Khalil-Daher I, Martinozzi S, Pla M, Dausset J, Carosella ED, Rouas-Freiss N: HLA-G1 co-expression boosts the HLA class I-mediated NK lysis inhibition. *Int Immunol.* 2001 Feb;13(2):193-201.

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