TECHNICAL DATA SHEET

CyFlow™ CD85j Purified
Anti-Hu; Clone GHI/75

REF **AC207504**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD85j
Alternative Names	LIR-1, LIR1 ILT2,
Clone	GHI/75
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG2b
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Hairy cell leukaemia cells

Specificity

The mouse monoclonal antibody GHI/75 recognizes CD85j antigen, 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).

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Functional assays

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD85j (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.

References

- Doussis IA, Gatter KC, Mason DY: CD68 reactivity of non-macrophage derived tumours in cytological specimens. J Clin Pathol. 1993 Apr; 46(4):334-6. < PMID: 7684403 >
- 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. < PMID: 10380908 >
- 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. < PMID: 11157852 >

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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