

LILRB1 / ILT-2 / CD85j

Mouse Monoclonal Antibody [Clone VMP55]

Catalog No	Format	Size	Price (USD)
10859-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
10859-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
10859-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug	499.00

Human Entrez Gene ID	10859
Human SwissProt	Q8NHL6
Human Unigene	667388
Human Gene Symbol	LILRB1
Human Chromosome Location	19q13.42
Synonyms	CD85 antigen; CD85j antigen; Ig like transcript 2; immunoglobulin like transcript 2 (ILT2); leukocyte Ig like receptor 1; Leukocyte immunoglobulin like receptor 1; leukocyte immunoglobulin like receptor subfamily B member 1 soluble isoform; LILRB1; LIR1; Monocyte/macrophage immunoglobulin like receptor 7 (MIR7); PIRB

Immunogen	Hairy cell leukemia cells
Host / Ig Isotype	Mouse / IgG1, kappa
Mol. Weight of Antigen	110/90kDa
Cellular Localization	Cell Surface
Species Reactivity	Human. Mouse. Rat.
Positive Control	IB4 or K-562 cells. Human PBMCs.

Specificity & Comments

Leukocyte immunoglobulin-like receptors (LIRs) are members of the immunoglobulin superfamily of glycoproteins and are predominantly expressed by monocytes, B cells, dendritic cells, natural killer (NK) cells, peripheral blood leukocytes and tissues such as placenta, lung and liver. Immunoglobulin-like transcript 2 (ILT-2), also known as CD85 or MIR7, is a 650 amino acid glycoprotein that contains a 23 amino acid signal peptide, 4 extracellular C2-type IGSF domains and 4 intracellular ITIM motifs. ILT-2 can bind major histocompatibility (MHC) class I molecules and inhibit cell termination by natural killer (NK) and T cells, and inhibit Ca²⁺ mobilization in myeloid cells triggered through the B cell antigen receptor and histocompatibility leukocyte antigens (HLA)-DR. ILT-2 contains four putative cytoplasmic tyrosine-based inhibitory motifs and upon tyrosine phosphorylation, associates with the tyrosine phosphatase SHP-1.

Known Applications & Suggested Dilutions

Immunoprecipitation (1-2ug per 100-500ug of total protein (1ml of cell lysate))
Western Blot (1-2ug/ml)
Flow Cytometry (1-2ug/million cells)
Immunofluorescence (1-2ug/ml)
Optimal dilution for a specific application should be determined.

Key References

- Kim, J.S., et al. 2004. Human cytomegalovirus UL18 alleviated human NK-mediated swine endothelial cell lysis. Biochem. Biophys. Res. Commun. 315: 144-150.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations

This antibody is available for research use only and is not approved for use in diagnosis.

Warranty

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.