

## 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 Ca<sup>2+</sup> 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

1. 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.

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