

ARG42246 anti-CD85j / LIR1 antibody [GHI/75] (low endotoxin)

Package: 100 µg
Store at: -20°C

Summary

Product Description	Azide free and low endotoxin Mouse Monoclonal antibody [GHI/75] recognizes CD85j / LIR1
Tested Reactivity	Hu
Tested Application	FACS, FuncSt, IP, WB
Specificity	The mouse monoclonal antibody GHI/75 recognizes an extracellular epitope of 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).
Host	Mouse
Clonality	Monoclonal
Clone	GHI/75
Isotype	IgG2b, kappa
Target Name	CD85j / LIR1
Species	Human
Immunogen	Hairy cell leukaemia cells.
Conjugation	Un-conjugated
Alternate Names	LIR-1; Leukocyte immunoglobulin-like receptor 1; ILT2; CD85 antigen-like family member J; Immunoglobulin-like transcript 2; LIR1; ILT-2; Leukocyte immunoglobulin-like receptor subfamily B member 1; Monocyte/macrophage immunoglobulin-like receptor 7; CD antigen CD85j; CD85J; MIR7; MIR-7

Application Instructions

Application table	Application	Dilution
	FACS	1 - 4 µg/ml
	FuncSt	Assay-dependent
	IP	Assay-dependent
	WB	Assay-dependent

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

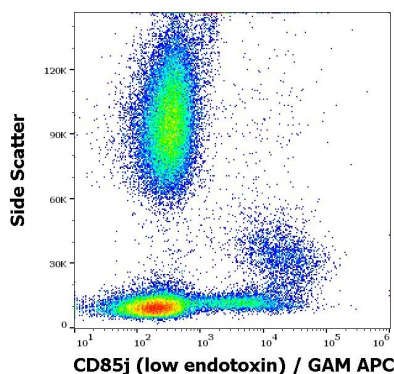
Form	Liquid
Purification	Purification with Protein A.
Purification Note	0.2 µm filter sterilized. Endotoxin level is less than 0.01 EU/µg of the protein.
Buffer	PBS

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

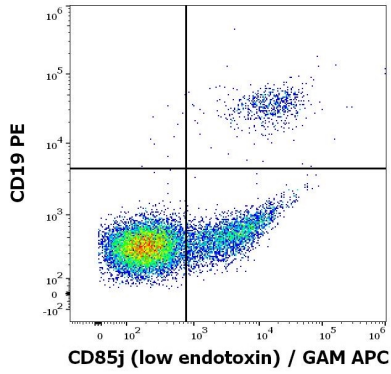
Gene Symbol	LILRB1
Gene Full Name	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1
Background	This gene is a member of the leukocyte immunoglobulin-like receptor (LIR) family, which is found in a gene cluster at chromosomal region 19q13.4. The encoded protein belongs to the subfamily B class of LIR receptors which contain two or four extracellular immunoglobulin domains, a transmembrane domain, and two to four cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs). The receptor is expressed on immune cells 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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C, HLA-G and HLA-F alleles (PubMed:16455647, PubMed:28636952). Receptor for H301/UL18, a human cytomegalovirus class I MHC homolog. Ligand binding results in inhibitory signals and down-regulation of the immune response. Engagement of LILRB1 present on natural killer cells or T-cells by class I MHC molecules protects the target cells from lysis. Interaction with HLA-B or HLA-E leads to inhibition of FCER1A signaling and serotonin release. Inhibits FCGR1A-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions (PubMed:11907092, PubMed:9285411, PubMed:9842885). Recognizes HLA-G in complex with B2M/beta-2 microglobulin and a nonamer self-peptide (PubMed:16455647). Upon interaction with peptide-bound HLA-G-B2M complex, triggers secretion of growth-promoting factors by decidual NK cells (PubMed:29262349, PubMed:19304799). Reprograms B cells toward an immune suppressive phenotype (PubMed:24453251). [UniProt]
Calculated Mw	71 kDa
PTM	Phosphorylated on tyrosine residues. Dephosphorylated by PTPN6. [UniProt]
Cellular Localization	Cell membrane; Single-pass type I membrane protein. Isoform 5: Secreted. [UniProt]

Images



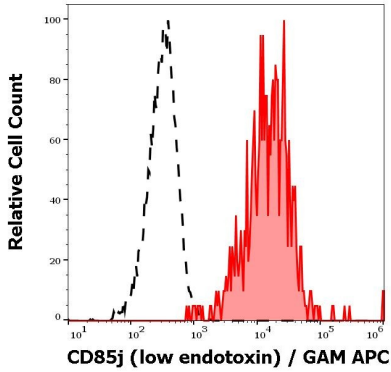
ARG42246 anti-CD85j / LIR1 antibody [GHI/75] (low endotoxin) FACS image

Flow Cytometry: Human peripheral blood stained with ARG42246 anti-CD85j / LIR1 antibody [GHI/75] (low endotoxin) at 1 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG42246 anti-CD85j / LIR1 antibody [GHI/75] (low endotoxin) FACS image

Flow Cytometry: Human lymphocytes stained with ARG42246 anti-CD85j / LIR1 antibody [GHI/75] (low endotoxin) at 1 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody. Samples were co-stained with [ARG53783](#) anti-CD19 antibody [LT19] (PE) at 20 µl / 100 µl of peripheral whole blood.



ARG42246 anti-CD85j / LIR1 antibody [GHI/75] (low endotoxin) FACS image

Flow Cytometry: Separation of Human CD85j positive B cells (red-filled) from neutrophil granulocytes (black-dashed). Human peripheral whole blood stained with ARG42246 anti-CD85j / LIR1 antibody [GHI/75] (low endotoxin) at 1 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.