ARG22822
anti-KIR2DL3 antibody [GL183]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [GL183] recognizes KIR2DL3 Mouse anti Human CD158b antibody, clone GL183 recognizes human Killer cell immunoglobulin-like receptor 2DL3, also known as CD158b, KIR-023GB, MHC class I NK cell receptor, p58 natural killer cell receptor clone CL-6 or Natural killer-associated transcript 2. CD158b is a 341 amino acid, ~58 kDa single pass type-1 transmembrane glycoprotein containing two Ig-like C2-type http://www.ebi.ac.uk/interpro/entry/IPR008424 domains. expressed by a subset of NK cells.This antibody also recognises a 50kDa molecule in some NK clones, which is highly homologous to p58.2 in the extracellular domain, but has a shorter cytoplasmic tail (Moretta et al. 1985). Both molecules are members of the newly described natural killer cell receptor family.CD158b functions as a receptor specific for HLA Class I molecules, including Cw3 and related HLA-C alleles. Mouse anti Human CD158b antibody, clone GL183 can restore the lysis by human NK clones of otherwise lysis protected targets expressing Cw3.
Tested Reactivity	Hu
Tested Application	FACS, IP
Host	Mouse
Clonality	Monoclonal
Clone	GL183
Isotype	IgG1
Target Name	KIR2DL3
Species	Human
Immunogen	NK cell clone E57 (Moretta et al. 1985).
Conjugation	Un-conjugated
Alternate Names	NKAT-2; CD158B2; p58.2 MHC class-I-specific NK receptor; CD158 antigen-like family member B2; KIR-023GB; Natural killer-associated transcript 2; KIR2DS5; GL183; Killer cell immunoglobulin-like receptor 2DL3; p58 natural killer cell receptor clone CL-6; KIR-K7b; KIR-K7c; NKAT2b; NKAT2a; p58 NK receptor CL-6; p58; Killer inhibitory receptor cl 2-3; MHC class I NK cell receptor; NKAT2; NKAT2B; NKAT2A; CD antigen CD158b2; CD158b; NKAT; KIRCL23

Application Instructions

Application table

Application	Dilution
FACS	1:10 - 1:50
IP	Assay-dependent

Application Note: FACS: Use 10 µl of the suggested working dilution to label 10^6 cells in 100 µl.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Unpurified.
Buffer	PBS, 0.09% Sodium azide and 0.5% BSA
Preservative	0.09% Sodium azide
Stabilizer	0.5% BSA
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	KIR2DL3
Gene Full Name	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 3
Background	Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response. [provided by RefSeq, Jul 2008]
Function	Receptor on natural killer (NK) cells for HLA-C alleles (HLA-Cw1, HLA-Cw3 and HLA-Cw7). Inhibits the activity of NK cells thus preventing cell lysis. [UniProt]
Calculated Mw	38 kDa