Data Sheet (Cat.No.TMAY-02503P)

TargetMol

Anti-KIR2DL1 Antibody-PE (4W251)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	PE
Clone:	4W251
Purification:	Protein A

Applications

Verified Activity:	Flow cytometric analysis of human KIR2DL1(CD158a) expression on human whole blood lymphocytes. Human whole blood lymphocytes were stained with PE-conjugated anti-Human KIR2DL1(CD158a). The histogram were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes.
Application:	FCM
Recommended	10 µl/Test, 0.1 mg/ml

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight. Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human KIR2DL1 / CD158a protein (TMPY-02629)
Antigen Species:	Human
Synonyms:	XXbac-BPG184J6.7;NKAT;killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail 1;XXbac-BCX195L8.1;KIR221;NKAT1;KIR-K64;p58.1;CD158A;NKAT-1
Biology Area:	ITIM/ITAM Immunoreceptors and Related Molecules

Research Background

Killer cell immunoglobulin-like receptor 2DL1 or KIR2DL1 is an inhibitory Natural Killer cell immunoglobulin-like receptor with two extracellular immunoglobulin domains. KIR2DL1 is a member of the Killer cell immunoglobulin-like receptor family whose members are classified by the number of the extracellular immunoglobulin domains and the length of the cytoplasm domain. KIR2DL1 is a transmembrane glycoprotein expressed by natural killer cells and subsets of T cells. KIR2DL1 down-regulates the cytotoxicity of NK cells upon recognition of specific class I major histocompatibility complex (MHC) molecules on target cells. It has been reported that the KIR2DL1 is bound to its class I MHC ligand, HLA-Cw4. The KIR2DL1-HLA-Cw4 interface exhibits charge and shape complementarity. Specificity is mediated by a pocket in KIR2DL1 that hosts the Lys80 residue of HLA-Cw4. Many residues conserved in HLA-C and KIR2DL receptors make different interactions in KIR2DL1-HLA-Cw4 and a previously reported KIR2DL2-HLA-Cw3 complex. A dimeric aggregate of KIR-HLA-C complexes was observed in one KIR2DL1-HLA-Cw4 crystal.

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