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

TargetMol

Anti-KIR2DL1 Antibody-APC (4W251)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	APC
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 APC-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.
Shipping:	Shipping with blue ice.

Antigen Details

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