Recombinant Human NKAT-1/KIR2DL1/CD158a Protein

Catalog No.: RP01431

Sequence Information

Species
Human

Gene ID
3802

Swiss Prot
P43626

Tags
C-His&Avi

Synonyms
KIR2DL1,CD158A,KIR-K64,KIR221, NKAT,NKAT-1,NKAT1,p58.1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
26.87 kDa

Observed MW
38-55 kDa

Endotoxin
Please contact us for more information.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

Basic Information

Description
Recombinant Human NKAT-1/KIR2DL1/CD158a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (His22-Arg242) of human KIR2DL1 (Accession #NP_055033.2) fused with a 6×His, Avi tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA.Immobilized Human KIR2DL1 at 1μg/mL (100 μL/well) can bind KIR2DL1 Rabbit pAb with a linear range of 1-99 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

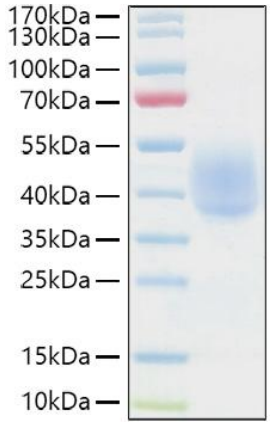
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

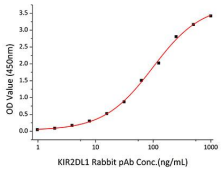
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Recombinant Human NKAT-1/KIR2DL1/CD158a Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Human KIR2DL1 at 1μg/mL (100 μL/well) can bind KIR2DL1 Rabbit pAb with a linear range of 1-99 ng/mL.