

# Recombinant Human NKAT-1/KIR2DL1/CD158a Protein

## RPCB0951



### Product Information

<b>Product SKU:</b>	RPCB0951	<b>Gene ID:</b>	3802	<b>Size:</b>	10µg
<b>Tag:</b>	C-His&Avi	<b>Reactivity:</b>	Human		

### Additional Information

<b>Expression Host:</b>	HEK293 cells	<b>Swissprot:</b>	P43626
<b>Purity:</b>	> 95% by SDS-PAGE.		

### Protein Information

**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.

**Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Human NKAT-1/KIR2DL1/CD158a Protein, tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.

**Endotoxin:** Please contact us for more information.

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

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**Storage:**

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.