# Data Sheet (Cat.No.TMPK-00887)

TargetMol

## KIR3DL2 Protein, Human, Recombinant (His & Avi)

### General Information

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| Synonyms: | KIR3DL2;p140;NKAT4;NKAT4A;NKAT4B;CL-5;CD158k;NKAT-4 |
| Protein Construction: | Leu22-Leu339 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | P43630-1 |
| Molecular Weight: | 37.9 kDa (predicted). Due to glycosylation, the protein migrates to 40-70 kDa based on Tris-Bis PAGE result. |

### QC Testing

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| Biological Activity: | Immobilized Human KIR3DL2, His Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Anti-KIR3DL2 Antibody, hFc Tag with the EC50 of 0.11μg/ml determined by ELISA. |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization. |

### Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

KIR3DL2 is a member of the killer cell immunoglobulin-like receptor (KIR) family that was initially identified at the surface of natural killer (NK) cells. KIR3DL2, also known as CD158k, is expressed as a disulfide-linked homodimer. Each chain is composed of three immunoglobulin-like domains and a long cytoplasmic tail containing two immunoreceptor tyrosine-based inhibitory motifs.

Reference

Schmitt C, Marie-Cardine A, Bensussan A. Therapeutic Antibodies to KIR3DL2 and Other Target Antigens on Cutaneous T-Cell Lymphomas. Front Immunol. 2017 Aug 30;8:1010. doi: 10.3389/fimmu.2017.01010. PMID: 28912774; PMCID: PMC5582066.



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