

# Active Recombinant Human Killer Cell Immunoglobulin-Like Receptor, Three Domains, Long Cytoplasmic Tail, 2, Fc-tagged

**Cat. No.** KIR3DL2-5669H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b>    | Recombinant Human KIR3DL2 protein was expressed in Murine myeloma cell line with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Human KIR3DL2 Leu22-Leu339(N-terminus).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>              | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Length</b>      | 22-339 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>         | KIR3DL2 is a type I transmembrane protein of the p70 family of killer cell Ig-like receptors (KIR). KIR are expressed on CD56 dim NK cells and T cell subsets where they participate in identifying normal and abnormal cells and regulating effector functions of the innate immune system. KIR are named for the number of Ig-like domains (2D or 3D) in the extracellular domain (ECD) and whether they have long or short (L, S) cytoplasmic tail. As with other inhibitory KIR, KIR3DL2 has two ITIM domains within its long tail (3). KIR3DL2 is diverse, with twelve alleles identified and as many as five single amino acid(aa) polymorphisms found in a single individual. |
| <b>Form</b>                | Lyophilized from a 0.2 µm filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>N-terminal Sequence</b> | Leu22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Weight</b>    | 61.4 kDa (monomer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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| <b>Activity</b>        | Measured by its ability to bind MDA-MB-231 human breast adenocarcinoma cells in a flow cytometry assay. A 50-100 fold increase in fluorescence intensity can be observed when MDA-MB-231 cells are stained with 1 µg/mL rhKIR3DL2/Fc Chimera and goat anti-human Fc-PE as compared to cells stained with goat anti-human Fc-PE. |
| <b>Endotoxin Level</b> | <1.0 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                                              |
| <b>SDS-PAGE</b>        | 85-90 kDa, reducing conditions.                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>          | >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                                                                                                                     |
| <b>Reconstitution</b>  | 100 µg/mL in sterile PBS                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>         | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.                                                            |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | KIR3DL2 killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b> | KIR3DL2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | KIR3DL2; killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2; p140; NKAT4; CD158K; NKAT-4; NKAT4B; killer cell immunoglobulin-like receptor 3DL2; KIR antigen 3DL2; killer Ig receptor; p70 NK receptor CL-5; MHC class I NK cell receptor; CD158 antigen-like family member K; p70 killer cell inhibitory receptor; natural killer-associated transcript 4; natural killer cell inhibitory receptor; p70 natural killer cell receptor clone CL-5; killer cell immunoglobulin-like receptor KIR3DL2 |

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| <b>Gene ID</b>             | 3812                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_001242867                                                                                                                                                                                                            |
| <b>Protein Refseq</b>      | NP_001229796                                                                                                                                                                                                            |
| <b>MIM</b>                 | 604947                                                                                                                                                                                                                  |
| <b>UniProt ID</b>          | P43630                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 19q13.4                                                                                                                                                                                                                 |
| <b>Pathway</b>             | Adaptive ImmuneSystem; Antigen processing and presentation; Graft-versus-host disease; ImmuneSystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoidcell; Natural killer cell mediated cytotoxicity |
| <b>Function</b>            | receptor activity                                                                                                                                                                                                       |

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