

## Product Information

**MemDX™ Membrane Protein Human KIR3DL2 (Killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 2) Expressed in NS0 for Antibody Discovery, Partial (22-339aa)**

Cat. No.: **MPX0503K**

This product is for research use only and is not intended for diagnostic use.

This product is a 61.4 kDa Human KIR3DL2 membrane protein expressed in NS0. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

KIR3DL2

#### Protein Length

Partial (22-339aa)

#### Protein Class

Receptor

#### Molecular Weight

61.4 kDa

#### TMD

1

#### Sequence

LMGGQDKPFLSARPSTVVPRGGHVALQCH  
YRRGFNNFMYLKEDRSHVPIFHGRIFQESFIMGPVTPAHAGTYRCRGSRP  
HSLTGWSAPSNPLVIMVTGNHRKPSLLAHPGPLLKSGETVILQCWSDVMF  
EHFFLHREGISEDPSRLVGQIHDGVSKANFSIGPLMPVLAGTYRCYGSVP  
HSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVQAGENVTLSCSSWSSY  
DIYHLSREGEAHERRLRAPKVNRTFQADFPLGPATHGGTYRCFGSFRAL  
PCVWSNSSDPLLVSVTGNPSSSWPSPTEPSSKSGICRHL

### Product Description

#### Activity

Yes

#### Expression Systems

NS0

### Tag

hIgG1 Fc tag at the C-terminus

### Protein Format

Soluble

### Form

LYOPH

### Reconstitution

Reconstitute at 100 µg/mL in sterile PBS.

### Endotoxin

<1.0 EU per 1 µg of the protein by the LAL method.

### Purity

>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.

### Buffer

Lyophilized from a 0.2 µm filtered solution in PBS.

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

KIR3DL2

### Full Name

Killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 2

### Introduction

Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response. This gene is one of the "framework" loci that is present on all haplotypes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

### Alternative Names

KIR3DL2; 3DL2; p140; NKAT4; CD158K; NKAT-4; NKAT4B; KIR-3DL2; killer cell immunoglobulin-like receptor 3DL2; CD158 antigen-like family member K; KIR antigen 3DL2; MHC class I NK cell receptor; killer Ig receptor; killer cell immunoglobulin-like receptor 2DL2; killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2; killer-cell immunoglobulin-like receptor; natural killer-associated transcript 4; p70 NK receptor CL-5; p70 killer cell inhibitory receptor; p70 natural killer cell receptor clone CL-5; Killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 2

**Gene ID**[3812](#)**UniProt ID**[P43630](#)