

# Product Information

## MemDX™ Membrane Protein Human KIR3DL1 (Killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 1) Full Length

Cat. No.: **MPC2443K**

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

This product is a made-to-order Human KIR3DL1 membrane protein expressed in HEK293. 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

KIR3DL1

#### Protein Length

Full length

#### Protein Class

Receptor

#### TMD

1

#### Sequence

MSLMVVSMACVGLFLVQRAGPHMGGQDKPFLSAWPSAVVPRGGHVTLRCH  
YRHRFNNFMLYKEDRIHIPIFHGRIFQESFNMSPVTTAHAGNYTCRGSHP  
HSPTGWSAPSNPVIVMTGNHRKPSLLAHPGPLVKSGERVILQCWSDIMF  
EHFFLHKEGISKDPSRLVGQIHDGVSKANFSIGPMMALAGTYRCYGSVT  
HTPYQLSAPSDPLDIVVTGPYEKPSLSAQPGPKVQAGESVTLSCSSRSSY  
DMYHLSREGGAHERRLPAVRKVNRTFQADFPLGPATHGGTYRCFGSFRHS  
PYEWSDPSDPLLVSVTGNPSSWPSPEPSSKSGNPRHLHILIGTSVII  
LFILLLFFLLHLWCSNKNAAVMDQEPEAGNRTANSEDSDEQDPEEVTYAQ  
LDHCVFTQRKITRPSQRPKTPPTDTILYTELPNAKPRSKVVSCP

### Product Description

#### Expression Systems

HEK293

#### Tag

Based on specific requirements

#### Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

#### Form

Liquid

#### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

#### Target

##### Target Protein

KIR3DL1

##### Full Name

Killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 1

##### 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.

##### Alternative Names

KIR3DL1; KIR; NKB1; NKAT3; NKB1B; NKAT-3; CD158E1; KIR2DL5B; KIR3DL1/S1; killer cell immunoglobulin-like receptor 3DL1; CD158 antigen-like family member E; HLA-BW4-specific inhibitory NK cell receptor; KIR antigen 3DL1; killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1; natural killer-associated transcript 3; p70 NK receptor CL-2/CL-11; p70 killer cell inhibitory receptor; p70 natural killer cell receptor clones CL-2/CL-11; Killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 1

##### Gene ID

[3811](#)

##### UniProt ID

[P43629](#)