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# Recombinant human CD158a/KIR2DL1 protein

Catalog Number: KIR3001

### **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

23-223aa

#### UniProt No.

P43626

#### **NCBI Accession No.**

NP 055033

#### **Alternative Names**

Killer cell immunoglobulin like receptor two Ig domains and long cytoplasmic tail 1, Killer cell immunoglobulin-like receptor 2DL1, CD158 antigen-like family member A, Natural killer-associated transcript 1, NKAT-1, p58 natural killer cell receptor clones CL-42/47.11, p58 NK receptor CL-42/47.11, p58.1 MHC class-I-specific NK receptor, CD158a

## **PRODUCT SPECIFICATION**

# **Molecular Weight**

22.2 kDa (202aa) confirmed by MALDI-TOF

# Concentration

1mg/ml (determined by Bradford assay)

## **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5)

# **Purity**

> 95% by SDS-PAGE

### Tag

Non-Tagged

#### **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

## **Description**

An inhibitory Keller Cell Ig-like Receptor (KIR, previously called p58 KIR, p58. 1, cl-42, NKAT1, or KIR-K6), which recognizes class I MHC molecules (HLA-Cw2, -Cw4, -Cw5, and Cw6). The protein coding region of the extracellular domain of KIR2DL1 (amino acids 1-202) was cloned into an E. coli expression vector. The



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extracellular domain of KIR2DL1 was overexpressed as insoluble protein aggregates (inclusion bodies). The recombinant KIR2DL1 protein was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a redox buffer.

# **Amino acid Sequence**

MEGVHRKPSL LAHPGRLVKS EETVILQCWS DVMFEHFLLH REGMFNDTLR LIGEHHDGVS KANFSISRMT QDLAGTYRCY GSVTHSPYQV SAPSDPLDIV IIGLYEKPSL SAQLGPTVLA GENVTLSCSS RSSYDMYHLS REGEAHERRL PAGPKVNGTF OADFPLGPAT HGGTYRCFGS FHDSPYEWSK SSDPLLVSVT GN

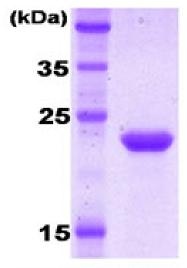
## **General References**

Steffens, u. et al. (1998) Tissue Antigens 51, 398-413. Wagtmann, N.R., et al. (1995) Immunity 2, 439-449. Colonna, M. et al. (1995) Science 269, 405-408

Kim, J. et al. (1997) J. Immunol. 159, 3875-3882.

# **DATA**

## **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

