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# Recombinant human 2B4/CD244 protein

Catalog Number: ATGP3552

# **PRODUCT INFORMATION**

# **Expression system**

Baculovirus

#### **Domain**

19-224aa

#### UniProt No.

O9BZW8

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

NP 057466.1

#### **Alternative Names**

CD244 molecule natural killer cell receptor 2B4, NAIL, NKR2B4, Nmrk, SLAMF4

# **PRODUCT SPECIFICATION**

#### **Molecular Weight**

50.2 kDa (448aa)

#### Concentration

1mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

# **Biological Activity**

Measured by its binding ability in a functional ELISA with Human CD48/SLAMF2 (CAT# ATGP3642). The ED50 range  $\leq 0.1$  ug/ml.

#### Tag

hlgG-His-Tag

# **Application**

SDS-PAGE, Bioactivity

# **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**



# Recombinant human 2B4/CD244 protein

Catalog Number: ATGP3552

# **Description**

CD244, also known as natural killer cell receptor 2B4 isoform 1, is a natural killer and T cell immunoglobulin superfamily surface protein and ligand of CD48. It is a cell surface glycoprotein related to CD2 and implicated in the regulation of natural killer and T lymphocyte function. It is expressed on all human NK cells, a subpopulation of T cells, basophils and monocytes. It activates NK cell mediated cytotoxicity, induces secretion of IFN-gamma and matrix metalloproteinases, and NK cell invasiveness. Recombinant human CD244, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

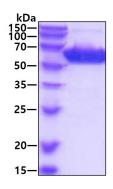
<ADL>GKGCQGS ADHVVSISGV PLQLQPNSIQ TKVDSIAWKK LLPSQNGFHH ILKWENGSLP SNTSNDRFSF IVKNLSLLIK AAQQQDSGLY CLEVTSISGK VQTATFQVFV FDKVEKPRLQ GQGKILDRGR CQVALSCLVS RDGNVSYAWY RGSKLIQTAG NLTYLDEEVD INGTHTYTCN VSNPVSWESH TLNLTQDCQN AHQEFRFWP<L EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAPIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTTP PVLDSDGSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNH YTQKSLSLSP GKHHHHHH>

#### **General References**

Brown MH., et al. (1998) J Exp Med. 188:2083-2090. Chuang SS., et al. (2001) J Immunol. 167:6210-6216.

#### **DATA**

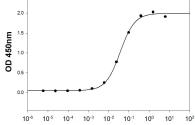
#### **SDS-PAGE**



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

# **Biological Activity**





Human CD244 (ug/ml)

Human CD48/SLAMF2 (CAT# ATGP3642) is coated at 2 ug/ml (100 ul/well) can bind Human CD244. The ED50 range  $\leq$  0.1 ug/ml.

