# **PRODUCT INFORMATION**

**Expression system** Baculovirus

**Domain** 27-220aa

**UniProt No.** P09326

NCBI Accession No. NP\_001769.2

### **Alternative Names**

B-cell membrane protein, B-lymphocyte activation marker BLAST-1, BCM1 surface antigen, Leukocyte antigen MEM-102, SLAM family member 2, Signaling lymphocytic activation molecule 2, TCT.1

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

23.4 kDa (203aa)

#### 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 CD244 (CAT# ATGP3552)

**Tag** 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



#### Description

CD48, also known as CD48 antigen isoform 1, is a GPI-linked protein in the CD2 family of immunoglobulin superfamily molecules. This protein is competent to transduce signals and can also trigger signaling through CD2 or 2B4. CD48-CD2 interactions promote T cell activation and class switching to IgG2a in B cells. High affinity CD48-2B4 interactions can either promote or inhibit NK cell and cytotoxic T cell (CTL) activation. It expressed on NK cells is coactivating, whereas CD48 expressed on other cell types inhibits NK cell activation. Recombinant human CD48, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### **Amino acid Sequence**

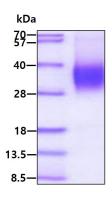
<ADP>QGHLVHM TVVSGSNVTL NISESLPENY KQLTWFYTFD QKIVEWDSRK SKYFESKFKG RVRLDPQSGA LYISKVQKED NSTYIMRVLK KTGNEQEWKI KLQVLDPVPK PVIKIEKIED MDDNCYLKLS CVIPGESVNY TWYGDKRPFP KELQNSVLET TLMPHNYSRC YTCQVSNSVS SKNGTVCLSP PCTLARS<HHH HHH>

### **General References**

Kis-Toth K., et al, (2014) J. Immunol. 192:4436-4442. Fisher RC., et al, (1991) Mol. Cell. Biol. 11:1614-1623.

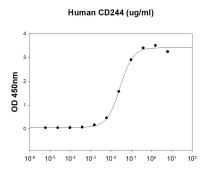
# DATA

#### SDS-PAGE



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

# **Biological Activity**



Human CD48/SLAMF2 is coated at 2 ug/ml (100 ul/well) can bind Human CD244 (CAT# ATGP3552) in a Functional ELISA assay.