

# Mouse CD48 / SLAMF2 / BCM1 Protein (His Tag)

Catalog Number: 50415-M08H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

AI449234; AW610730; Bcm-1; BCM1; BLAST; BLAST-1; BLAST1; MEM-102; Sgp-60; SLAMF2

### Protein Construction:

A DNA sequence encoding the mouse CD48 (NP\_031675.1) without the propeptide, corresponding to the amino acids (Met 1-Arg 216) was expressed with a C-terminal polyhistidine tag.

**Source:** Mouse

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 85 % as determined by SDS-PAGE

### Bio Activity:

**1. Measured by its ability to bind human 2B4 in a functional ELISA. 2. Measured by its ability to bind biotinylated recombinant mouse CD2 in a functional ELISA.**

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Phe 23

### Molecular Mass:

The secreted recombinant mouse CD48 consists of 205 amino acids and has a calculated molecular mass of 23.7 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 45-60 kDa in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

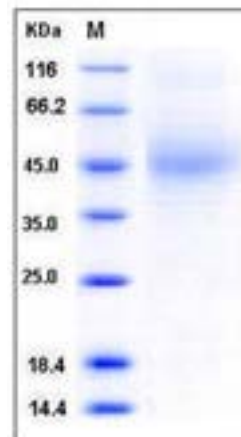
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

Cluster of Differentiation 48 (CD48), also known as SLAMF2, BCM-1 and BLAST-1, is a GPI-linked protein belonging to the CD2 subfamily of immunoglobulin superfamily molecules. CD2 and 2B4 (CD244) are known ligands for CD48. CD48 protein is expressed on most lineage-committed hematopoietic cells but not on hematopoietic stem cells or multipotent hematopoietic progenitors. CD48 protein performs biological functions in a variety of processes including adhesion, pathogen recognition, cellular activation, and cytokine regulation, and emerges as a critical effector molecule in immune responses.

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