# Recombinant Mouse ALCAM/CD166 protein (His tag)

**Catalog Number:PDMM100038**

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

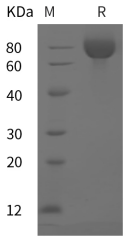
## Description

| | |
|---|---|
| **Synonyms** | AI853494;BEN;CD166;DM-GRASP;MuSC;SC1;CD166 antigen;cluster of differentiation 166;CD166;activated leucocyte cell adhesion molecule;CD6 ligand;Protein DM-GRASP;CD6L;MEMD |
| **Species** | Mouse |
| **Expression Host** | HEK293 Cells |
| **Sequence** | Met1-Lys527 |
| **Accession** | Q61490 |
| **Calculated Molecular Weight** | 57.9 kDa |
| **Observed molecular weight** | 75 kDa |
| **Tag** | C-His |

## Properties

| | |
|---|---|
| **Purity** | > 95 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | Please contact us for more information. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 95 % as determined by reducing SDS-PAGE.

## Background

Activated leukocyte cell adhesion molecule (ALCAM), also named as CD166 and MEMD, is a typeI transmembrane glycoprotein of immunoglobulin superfamily, which mediates homotypic and heterotypic interactions between cells. ALCAM interacts with high affinity with CD6 molecule but weaker homotypic (ALCAM–ALCAM) interactions have also been described. ALCAM–CD6 interactions play an important role in the maintenance of T cell activation, proliferation as well as in formation of immune synapse between antigen-presenting cell and lymphocytes. ALCAM is expressed on a wide variety of cells, particularly on activated lymphocytes, dendritic cells and monocytes, and on various

epithelial cell types. It is also involved in multiple processes including embryogenesis, hematopoiesis, angiogenesis, and immune response. While expressed in a wide variety of tissues, ALCAM is usually restricted to subsets of cells in most adult tissues. Recently studies showed ALCAM has prognostic relevance in several human carcinomas, and it has been used as a biomarker for several tumor entities, including melanoma, gynecologic, urologic, and gastrointestinal cancers.



Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com Email: techsupport@elabscience.com