# **Recombinant Mouse CD6 Protein**

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Catalog No.: RP03283 Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Mouse 12511 091WN5

**Tags** C-His

Synonyms

CD6 antigen; Cd6; CD6

### **Product Information**

**Source** Purification HEK293 cells > 90% by SDS-

PAGE.

Calculated MW Observed MW

42.6 kDa 60-70 kDa

### Endotoxin

 $< 1.0 EU/\mu g$  of the protein by LAL method

#### **Formulation**

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

#### **Contact**

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### **Background**

CD6 is a type I transmembrane glycoprotein and contains three extracellular SRCR domains. It is expressed on thymocytes, T cells, a subset of B cells, and on certain regions of the brain. Mouse CD6 is a 665 amino acid (aa) protein that includes a 16 aa signal sequence, a 382 aa extracellular domain, a 21 aa transmembrane segment, and a 246 aa cytoplasmic region. CD6 appears to play a role as both a co-stimulatory molecule in T cell activation and as an adhesion receptor. Studies demonstrating a mitogenic effect for T cells with some CD6-specific monoclonal antibodies, in conjunction with either accessory cells or PMA and anti-CD2 mAb, support the concept of CD6 as a co-stimulatory molecule. Other studies have demonstrated an adhesive role for CD6. It has been demonstrated to bind the activated leukocyte cell adhesion molecule (ALCAM, CD166).

## **Basic Information**

#### **Description**

Recombinant Mouse CD6 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Gly396) of mouse CD6 (Accession #Q91WN5) fused with His tag at the C-terminus.

#### **Bio-Activity**

Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When  $8\times10^4$  cells/well are added to mCD6-His coated plates (5 µg/mL and 100 µL/well) in the ppresence of 10µg/mL PHA, approximately >45% cells will adhere specifically after 60 minutes at 37°C.

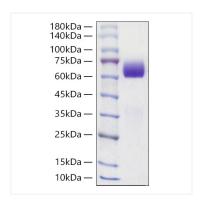
### **Storage**

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

# **Validation Data**



Recombinant Mouse CD6 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-70 kDa.