

# Recombinant Mouse CD6 Protein

Catalog No.: RP03283 **Recombinant**

## Sequence Information

**Species** Mouse    **Gene ID** 12511    **Swiss Prot** Q91WN5

### Tags

C-His

### Synonyms

CD6 antigen; Cd6; CD6

## 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).

## Product Information

### Source

HEK293 cells

### Purification

≥ 90 % as determined by SDS-PAGE.

### Calculated MW

42.6 kDa

### Observed MW

60-70 kDa

### Endotoxin

< 1 EU/μg 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze/thaw cycles.

## 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  $8 \times 10^4$  cells/well are added to mCD6-His coated plates (5 μg/mL and 100 μL/well) in the presence of 10 μg/mL PHA, approximately >45% cells will adhere specifically after 60 minutes at 37°C.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### 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.

### Operational Notes

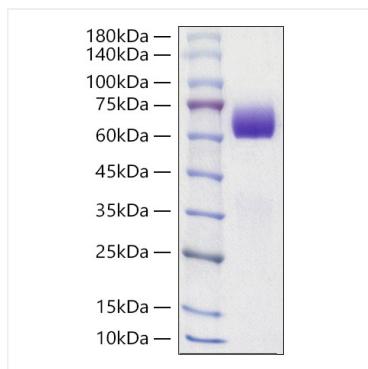
For your safety and health, please wear a lab coat and disposable gloves for handling.

## Contact

	400-999-6126
	<a href="mailto:cn.market@abclonal.com.cn">cn.market@abclonal.com.cn</a>
	<a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>

## Validation Data

---



Recombinant Mouse CD6 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.