

Recombinant Mouse CD6 Protein

Catalog No.: RP03283

Sequence Information

Species **Gene ID**
Mouse 12511

Swiss Prot **Tags**
Q91WN5 C-His

Synonyms
CD6 antigen; Cd6; CD6

Product Information

Source **Purification**
HEK293 cells ≥ 90 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
42.6 kDa 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 free-thaw cycles.

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.

Activity

Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When 8×10^4 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

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

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

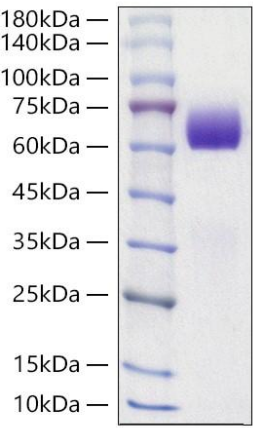
Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Validation Data



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