

For Research Use Only

Recombinant Mouse CD6 protein (rFc Tag)



Catalog Number: Eg1401

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse CD6 protein Gly17-Gly396 (Accession# Q61003-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

12511

Accession:

Q61003-1

Predicted Molecular Mass:

67.4 kDa

SDS-PAGE:

75-100 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD6 is a type I transmembrane glycoprotein of 105-130 kDa that belongs to the scavenger receptor cysteine-rich superfamily. It is composed of an extracellular region, which consists of three tandem SRCR domains, a transmembrane region, and a cytoplasmic tail devoid of intrinsic catalytic activity but harboring several phosphorylatable residues suitable for intracellular signal transduction. CD6 is expressed by T cells, medullary thymocytes, a subset of B cells and NK cells, and in some cells of the brain. CD6 plays a role in lymphocyte activation, proliferation, and survival processes via interaction with its endogenous ligands.

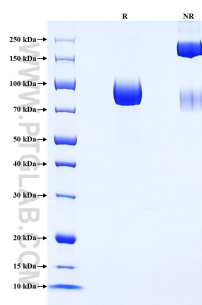
References

1. Martínez VG. et al. (2011). Pharmacol Rev. 63(4):967-1000.
2. Aragón-Serrano L. et al. (2023). Int J Mol Sci. 24(24):17510.
3. Bonet L. et al. (2013). FEBS Lett. 587(14):2205-13.
4. Aruffo A. et al. (1991). J Exp Med. 174(4):949-52.
5. Braun M. et al. (2011). J Innate Immun. 3(4):420-34.

Synonyms

T-cell differentiation antigen CD6

Selected Validation Data



Purity of Recombinant Mouse CD6 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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