

Recombinant Rabbit CD4 protein (His Tag)

Catalog Number: Eg0927

Basic Information

Species:
Rabbit**Purity:**
>90 %, SDS-PAGE**Tag:**
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Rabbit CD4 protein Lys26-Pro396 (Accession# P46630) with a His tag at the C-terminus.

GeneID:

100009152

Accession:

P46630

Predicted Molecular Mass:

42.1 kDa

SDS-PAGE:

39-45 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

CD4 is a transmembrane glycoprotein of the immunoglobulin super-family (IgSF), containing four extracellular Ig-like domains, a hydrophobic transmembrane region and a 40-residue cytoplasmic tail. CD4 is expressed T helper cells, majority of thymocytes, monocytes, macrophages, and dendritic cells. CD4 is an accessory protein for MHC class-II antigen/T-cell receptor interaction and it is involved in T cell differentiation, development and activation by interacting with antigen-presenting cells (APCs). The cytoplasmic tail of CD4 associates with the Lck kinase, which in turn activates the signaling components of the T cell receptor (TCR)-CD3 complexes. CD4 also serves as a receptor for human immunodeficiency virus (HIV) by binding to the viral envelope glycoprotein gp120.

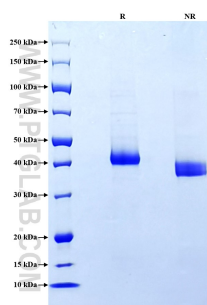
References

1. Tseng WY, et al. (2013). PLoS One. 8(5):e63963.
2. Bowers K, et al. (1997). Int J Biochem Cell Biol. 29(6):871-875.
3. Graziani-Bowering G, et al. (2002). Exp Cell Res. 279(1):141-152.
4. Moore JP, et al. (1997). Curr Opin Immunol. 9: 551-562.

Synonyms

CD4, T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4

Selected Validation Data



Purity of Recombinant Rabbit CD4 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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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