

Catalog Number: Eg2025

Basic Information**Species:**
Rat**Purity:**
>90 %, SDS-PAGE**Tag:**
rFc Tag**Technical Specifications****Purity:**
>90 %, SDS-PAGE**Endotoxin Level:**
<0.1 EU/ μ g protein, LAL method**Source:**
HEK293-derived Rat CD4 protein Lys28-Thr394 (Accession# P05540) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**
24932**Accession:**
P05540**Predicted Molecular Mass:**
67.4 kDa**SDS-PAGE:**
70-85 kDa, reducing (R) conditions**Formulation:**
Lyophilized from 0.22 μ m 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 55-kDa transmembrane glycoprotein expressed on 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. It plays an important role in T helper cell development and activation. CD4 serves as a receptor for the human immunodeficiency virus (HIV). CD4 triggering by gp120, a natural ligand of CD4, potentiates CD44-mediated adhesion to hyaluronic acid. CD4 is present in human and rat macrophages, but absent in mice.

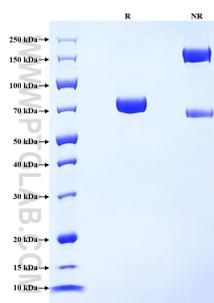
References

1. K Bowers, et al. (1997) Int J Biochem Cell Biol. 29(6):871-5.
2. Gina Graziani-Bowering, et al. (2002) Exp Cell Res. 279(1):141-52.
3. J M Riberdy, et al. (1998) Proc Natl Acad Sci U S A. 95(8):4493-8.
4. U Dianzani, et al. (1999) Int Immunol. 11(7):1085-92.
5. P R Crocker, et al. (1987) J Exp Med. 166(2):613-8.

Synonyms

CD4 molecule, p55

Selected Validation Data



Purity of Recombinant Rat 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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