

For Research Use Only

Recombinant Rat CD3 epsilon protein (rFc Tag)



Catalog Number: Eg1450

Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
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Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Rat CD3 epsilon protein Ile24-Tyr103 (Accession# NP_001101610.2) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
315609

Accession:
NP_001101610.2

Predicted Molecular Mass:
35.5 kDa

SDS-PAGE:
38-48 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

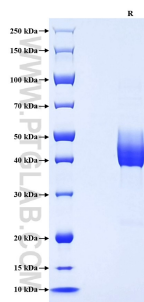
CD3 is a multimeric protein associated with the T-cell receptor (TCR) to form a complex involved in antigen recognition and signal transduction. CD3 is composed of CD3 γ , δ , ϵ , and ζ chains. It is expressed by thymocytes in a developmentally regulated manner, T cells, and some NK cells. The TCR recognizes antigens bound to major histocompatibility complex (MHC) molecules. TCR-mediated peptide-MHC recognition is transmitted to the CD3 complex, leading to the intracellular signal transduction. This polyclonal antibody was raised against the epsilon chain of rat CD3 molecule.

References

1. Yang H. et al. (2005). Immunology. 115(2):189-96.
2. Clevers H. et al. (1988). Annu Rev Immunol. 6:629-62.
3. Cantrell DA. (2002). Immunology. 105(4):369-74.

Synonyms

Selected Validation Data



Purity of Recombinant Rat CD3 epsilon was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

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

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