For Research Use Only

Recombinant Mouse TCB1 protein (rFc Tag)

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Catalog Number: Eg2437

Basic Information

Species: Mouse
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 Mouse TCB1 protein Glu1-Ser140 (Accession# P01852) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

Accession:
P01852

Predicted Molecular Mass:
42.0 kDa

SDS-PAGE:
42-55 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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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

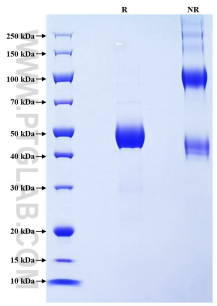
TCB1(T-cell receptor beta-1 chain C region) is one of the constant regions of T cell receptor (TR) beta chain and includes V (variable), J (joining), diversity (D), and C (constant) segments. TCB1 is synthesized through DNA-level recombination events during T cell development and is involved in antigen recognition and immune response of T cells.

References

1. Paul M Maciocia , et al. (2017) Nat Med. 23(12):1416-1423.
2. Fanlin Li , et al. (2022) Nat Commun. 13(1):4334.
3. Marie-Paule Lefranc , et al. (2014) Front Immunol. 5:22.

Synonyms

Selected Validation Data



Purity of Recombinant Mouse TCB1 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.