For Research Use Only

Recombinant Rat CD19 protein (rFc Tag)

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Catalog Number: Eg9426

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 CD19 protein Arg19-Gly287 (Accession# A6I950) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
365367

Accession:
A6I950

Predicted Molecular Mass:
55.2 kDa

SDS-PAGE:
65-85 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℃ 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

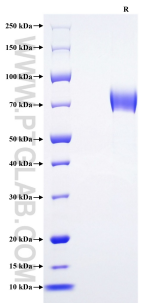
CD19 is a type I transmembrane glycoprotein belonging to the immunoglobulin superfamily. It is expressed by B cells and follicular dendritic cells. CD19 is up-regulated at the step of B-lineage commitment during the differentiation of the hematopoietic stem cell, it remains on during subsequent stages of differentiation until finally down-regulated during terminal differentiation into plasma cells. CD19 is also involved in B cell development, activation, and differentiation. It is the dominant component for the signaling complex on B cells that includes CD21 (CR2), CD81 (TAPA-1) and CD225 and acts as a critical co-receptor for BCR signal transduction.

References

1. Tedder, T F, and C M Isaacs. Journal of immunology (Baltimore, Md. : 1950) vol. 143,2 (1989): 712-7.
2. Scheuermann, R H, and E Racila. Leukemia & lymphoma vol. 18,5-6 (1995): 385-97.
3. Wang, Kemeng et al. Experimental hematology & oncology vol. 1,1 (2012): 36.

Synonyms

Selected Validation Data



Purity of Recombinant Rat CD19 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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