For Research Use Only

Recombinant Rat CD200 protein (rFc Tag)

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Catalog Number: Eg6121

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 CD200 protein Gln31-Gly232 (Accession# P04218) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
24560

Accession:
P04218

Predicted Molecular Mass:
47.9 kDa

SDS-PAGE:
55-67 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

CD200, also known as OX2, is a type I transmembrane glycoprotein that belongs to the immunoglobulin superfamily. It contains two extracellular immunoglobulin domains, a transmembrane and a cytoplasmic domain. CD200 is expressed on a variety of cell types, including thymocytes, B lymphocytes, a subset of T lymphocytes, follicular dendritic cells, neurons, and endothelial cells. CD200 binds to its receptor, CD200R, which is primarily expressed by myeloid and T cell lineage. The CD200-CD200R interaction plays a role in immunosuppression and suppression of anti-tumor immune responses.

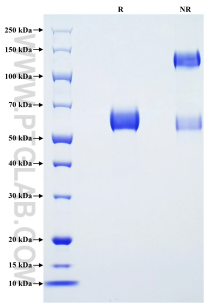
References

1. McCaughan, G W et al. Immunogenetics vol. 25,5 (1987): 329-35.
2. Wright, G J et al. Immunity vol. 13,2 (2000): 233-42.
3. Gorczynski, Reginald et al. Journal of immunology (Baltimore, Md. : 1950) vol. 172,12 (2004): 7744-9.
4. Rygiel, T P et al. Oncogene vol. 31,24 (2012): 2979-88.

Synonyms

Mox2, MRC OX-2 antigen, OX2, OX-2 membrane glycoprotein

Selected Validation Data



Purity of Recombinant Rat CD200 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.

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