

For Research Use Only

Recombinant Mouse CD200 protein (hFc Tag)(HPLC verified)



Catalog Number: Eg0919

Basic Information

Species:
Mouse

Purity:
>95 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
hFc Tag
EC50:
8-32 ng/mL

Technical Specifications

Purity:
>95 %, SDS-PAGE
 >90 %, SEC-HPLC

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

Source:
HEK293-derived Mouse CD200 protein Gln31-Gly232 (Accession# O54901) with a human IgG1 Fc tag at the C-terminus.

GeneID:
17470

Accession:
O54901

Predicted Molecular Mass:
48.5 kDa

SDS-PAGE:
60-68 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

Immobilized Mouse CD200R1 (His tag) at 1 μ g/mL (100 μ L/well) can bind Mouse CD200 (hFc tag) with a linear range of 8-32 ng/mL.

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

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.

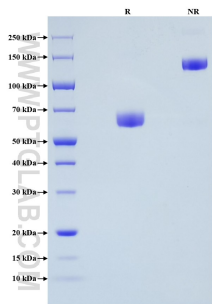
References

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

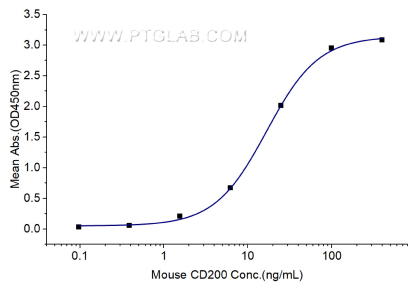
Synonyms

CD200 antigen, Mox2, OX2

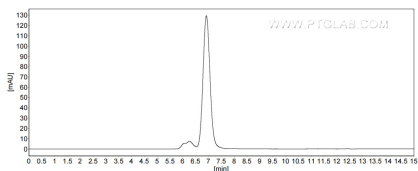
Selected Validation Data



Purity of Recombinant Mouse 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.



Immobilized Mouse CD200R1 (His tag) at 1 μ g/mL (100 μ L/well) can bind Mouse CD200 (hFc tag) with a linear range of 8-32 ng/mL.



The purity of Mouse CD200 was greater than 90% as determined by SEC-HPLC.