

For Research Use Only

Recombinant Rat CD90 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3463

Basic Information

Species:
Rat

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

Tag:
rFc Tag

Technical Specifications

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

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Rat CD90 protein Gln20-Cys130 (Accession# P01830) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
24832

Accession:
P01830

Predicted Molecular Mass:
39.0 kDa

SDS-PAGE:
42-50 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm 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

THY1 (CD90) is a 25-37-kDa heavily N-glycosylated, glycosylated phosphatidylinositol (GPI) anchored cell surface protein. It is usually expressed on thymocytes, mesenchymal stem cells, hematopoietic stem cells, natural killer cells, neurons, endothelial cells, renal glomerular mesangial cells, follicular dendritic cells, fibroblasts, and myofibroblasts. It has been found to regulate cell adhesion, migration, apoptosis, axon growth, cell-cell and cell-matrix interactions, T-cell activation, and fibrosis. Several reports have shown that CD90 has an important role in cancer in regulating cancer cell proliferation, metastasis, and angiogenesis. CD90 is a pan-innate lymphoid cells (ILC) marker. THY1 is a critical regulator of cell adhesion and communication, cell-ECM interaction and the immune and nervous systems.

References

1. Kumar A, et al. (2016) Tumour Biol. 37(9):11611-11622.
2. Schroeder JH, et al. (2023) Front Immunol. 14:1113735.
3. Rege TA, Hagood JS. (2006) FASEB J. 20(8):1045-54.
4. Saalbach A, et al. (2005) Oncogene. 24(29):4710-20.

Synonyms

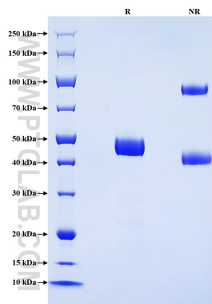
Thy1, Thy-1, Thy-1 antigen, Thy-1 membrane glycoprotein

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

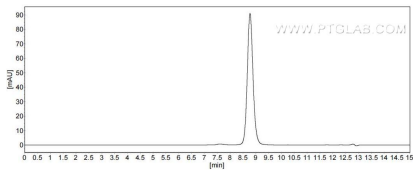
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Selected Validation Data



Purity of Recombinant Rat CD90 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.



The purity of Rat CD90 was greater than 90% as determined by SEC-HPLC.