

For Research Use Only

Recombinant Mouse CD34 protein (His Tag)



Catalog Number: Eg0854

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse CD34 protein Thr35-Thr287 (Accession# Q64314-1) with a His tag at the C-terminus.

GeneID:

12490

Accession:

Q64314-1

Predicted Molecular Mass:

28 kDa

SDS-PAGE:

40-70 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°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

CD34 is a 105- to 120-kDa glycoprophosphoprotein expressed on the majority of hematopoietic stem/progenitor cells, bone marrow stromal cells, capillary endothelial cells, embryonic fibroblasts, and some nerve tissue. CD34 is a commonly used marker for identifying human hematopoietic stem/progenitor cells and mediates cell adhesion and lymphocyte homing by binding L-selectin and E-selectin ligands. CD34 is also one of the best negative selection markers for characterizing and/or isolating human MSCs from bone marrow and other sources. Along with other positive selection markers (such as CD29, CD44, CD90, CD105 and CD166), negative selection markers (such as CD34 and CD45) are used for MSC identification.

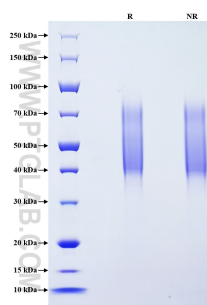
References

1. J Brown, et al. (1991) Int Immunol. 3(2):175-84.
2. F Lanza, et al. (2001) J Biol Regul Homeost Agents. 15(1):1-13.
3. Laura E Sidney, et al. (2014) Stem Cells. 32(6):1380-9.
4. Hori Ghaneialvar, et al. (2018) Indian J Clin Biochem. 33(1):46-52.

Synonyms

Cd34, CD34 antigen

Selected Validation Data



Purity of Recombinant Mouse CD34 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.

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

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