For Research Use Only

Recombinant Mouse CD138/Syndecan-1 protein (His Tag)

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Catalog Number: Eg1221

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 CD138 protein Gln23-Glu252 (Accession# P18828-1) with a His tag at the C-terminus.

GeneID:
20969

Accession:
P18828-1

Predicted Molecular Mass:
25.0 kDa

SDS-PAGE:
35-40 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

CD138, also named as Syndecan-1 (SDC1), is an integral membrane protein. It participates in cell proliferation, cell migration and cell-matrix interactions via its receptor for extracellular matrix proteins. It is a heparan sulfate proteoglycan expressed on the surface of, and actively shed by, myeloma cells. Altered syndecan-1 expression has been detected in several different tumor types. CD138 was regarded as a useful marker for labeling normal and neoplastic plasma cells and plasmacytoid lymphomas.

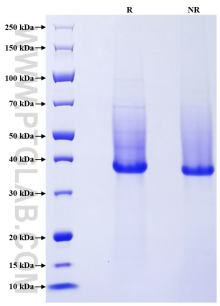
References

1. Saunders. et al. (1989) J.Cell Biol. 108,1547-1556.
2. Jalkanen M. et al. (1988) J.Cell Biol. 106,953-962.
3. Couchman JRet al. (2010) Annu.Rev.Cell Dev.Biol. 26,89-114.
4. McCarron MJ. et al. (2017) Blood. 129,2749-2759.
5. Gopal. et al. (2021) Open Biol. 11,200377.
6. Chen K. et al. (2013) J.Biol.Chem. 288,13988-13999.

Synonyms

CD138, Sdc1, SYND1, Synd-1, Syndecan-1

Selected Validation Data



Purity of Recombinant Mouse CD138 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.