

For Research Use Only

Recombinant Human CD302 protein (rFc Tag)



Catalog Number: Eg2671

Basic Information

Species:
Human

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 Human CD302 protein Asp23-His168 (Accession# Q8IX05-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
9936

Accession:
Q8IX05-1

Predicted Molecular Mass:
43.0 kDa

SDS-PAGE:
40-50 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

CD302, also known as CD302 molecule, is a C-type lectin receptor (CLR) that plays a significant role in the immune system, particularly in cell adhesion, migration, endocytosis, and phagocytosis. CD302 is expressed mainly on myeloid phagocytes in human blood and has been implicated in the functional regulation of immune cells. As a CLR, CD302 recognizes molecular patterns expressed by exogenous and endogenous threats, capturing and internalizing antigens and mediating other important immune cell functions. In the liver, CD302 is expressed by hepatocytes, liver sinusoidal endothelial cells, and Kupffer cells. Among immune cells, myeloid cells such as macrophages, granulocytes, and myeloid dendritic cells (mDC) express the highest levels of CD302. CD302 is also considered a prognostic marker in various types of cancer, including Glioblastoma multiforme, Kidney renal clear cell carcinoma, and Lung adenocarcinoma. It has been detected in blood by mass spectrometry and proximity extension assays, suggesting its potential as a biomarker for certain diseases.

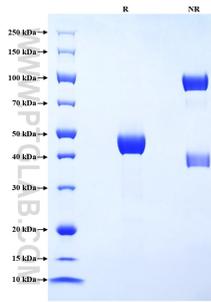
References

1. Masato Kato. et al. (2007). J Immunol. 179(9):6052-6063.
2. Tsun-Ho Lo. et al.(2016). J Immunol.197(3):885-898.
3. Birthe Reinecke. et al. (2022). J Virol. 96(7):e0199521.

Synonyms

CD302, BIMLEC, C type lectin BIMLEC, CD302 antigen, CD302 molecule

Selected Validation Data



Purity of Recombinant Human CD302 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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.