

For Research Use Only

Recombinant Human CD99 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg1728

Basic Information

Species:
Human

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 Human CD99 protein Asp23-Asp122 (Accession# P14209-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
4267

Accession:
P14209-1

Predicted Molecular Mass:
36.4 kDa

SDS-PAGE:
44-55 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

CD99, also known as MIC2, is a heavily O-glycosylated transmembrane protein involved in T-cell adhesion processes and in spontaneous rosette formation with erythrocytes. CD99 is broadly distributed on many cell types, with particularly strong expression on human cortical thymocytes, Ewing's sarcoma cells and peripheral primitive neuroectodermal tumors. In normal cells, CD99 has been functionally implicated in cell adhesion, migration, apoptosis, differentiation, activation, and proliferation of lymphocytes and monocyte extravasation and transport of several transmembrane proteins.

References

1. Wacławicek M. et al. (1998) Immunol. 161(9):4671-4678.
2. Byun, H. J. et al. (2006) J Biol Chem. 281(46):34833-47.
3. Alberti I. et al. (2002) FASEB J. 16(14):1946-1948.

Synonyms

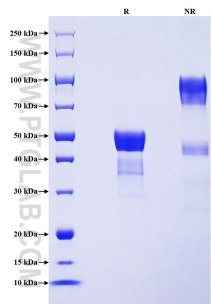
12E7, CD99 antigen, CD99 molecule, E2 antigen, MIC2

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

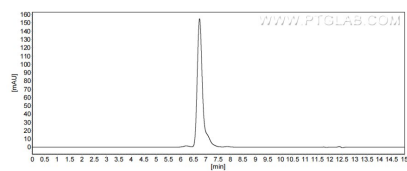
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Purity of Recombinant Human CD99 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 Human CD99 was greater than 90% as determined by SEC-HPLC.