

For Research Use Only

Recombinant Mouse CD22 protein (rFc Tag)



Catalog Number: Eg2587

Basic Information

Species:
Mouse

Purity:
>95 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>95 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse CD22 protein Ser22-Arg708 (Accession# P35329-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

12483

Accession:

P35329-1

Predicted Molecular Mass:

103.3 kDa

SDS-PAGE:

110-140 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

CD22, also known as Siglec-2 (sialic acid binding Ig-like lectin 2) or BL-CAM (B-lymphocyte cell adhesion molecule), is a 130-140 kDa, B-cell restricted, type I transmembrane glycoprotein belonging to the immunoglobulin gene superfamily. The expression of CD22 is developmentally regulated. It is expressed at low levels in the cytoplasm of pro-B and pre-B cells and present on the cell surface only at mature stages of B-cell differentiation. Cell surface expression is lost during terminal differentiation into plasma cell and after B-cell activation. CD22 is an inhibitory receptor for B-cell receptor (BCR) signalling, preferentially binds to α -2,6-linked sialic acid and mediates B-cell B-cell interactions. It plays a crucial role in activation and differentiation of the B-cell. Soluble form of CD22 (sCD22) has been found in serum and may be useful as a tumor marker for hairy cell leukemia.

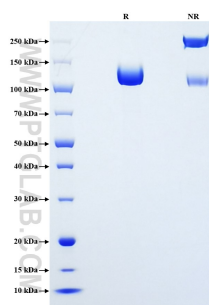
References

1. Clark EA. et al. (1993). J Immunol. 150(11):4715-8.
2. Nitschke L. et al. (1997). Curr Biol. 7(2):133-43.
3. Carnahan J. et al. (2003). Clin Cancer Res. 9(10 Pt 2):3982S-90S.
4. Matsushita K. et al. (2008). Blood. 112(6):2272-7.

Synonyms

B-cell receptor CD22, BL-CAM, B-lymphocyte cell adhesion molecule, Lyb-8, Sialic acid-binding Ig-like lectin 2

Selected Validation Data



Purity of Recombinant Mouse CD22 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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