

For Research Use Only

Recombinant Mouse CD22 protein (rFc Tag)



Catalog Number: Eg2587

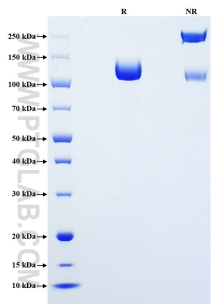
Basic Information	Species: Mouse	Purity: >95 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >95 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Mouse CD22 protein Ser22-Arg708 (Accession# P35329-1) with a rabbit IgG Fc tag at the C-terminus. GeneID: 12483 Accession: P35329-1 Predicted Molecular Mass: 103.3 kDa SDS-PAGE: 110-140 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 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	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 alpha-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		

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

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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.