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Datasheet for ABIN6720081 CD22 ELISA Kit

Overview

Quantity:	1 kit
Target:	CD22
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric

Characteristics:

Synonyms: B cell receptor CD22 precursor, B lymphocyte cell adhesion molecule, B-cell receptor CD22, B-lymphocyte cell adhesion molecule, BL CAM, BL-CAM, BLCAM, CD 22, CD22, CD22 antigen, CD22 Molecule, CD22 protein, CD22_HUMAN, Lectin 2, Leu14, Lyb8, MGC130020, sialic acid binding Ig like lectin 2, Sialic acid binding immunoglobulin like lectin 2, Sialic acid-binding Ig-like lectin 2, SIGLEC 2, Siglec-2, SIGLEC2, T cell surface antigen Leu 14, T-cell surface antigen Leu-14

Background: CD22 or cluster of differentiation-22, is a molecule belonging to the SIGLEC family of lectins. This gene is mapped to 19q13.2. It is found on the surface of mature B cells and to a

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lesser extent on some immature B cells. Generally speaking, CD22 is a regulatory molecule that prevents the overactivation of the immune system and the development of autoimmune diseases. It is a negative regulator of antigen receptor signaling whose onset of expression at the mature B cell stage may serve to raise the antigen concentration threshold required for B cell triggering. CD22 functions as an inhibitory receptor for B cell receptor (BCR) signalling. This gene can downmodulate signaling through the IgM and IgD B-cell receptors(BCRs), but not through the IgG BCR, because the IgG cytoplasmic tail prevents CD22 phosphorylation and actually enhances IgG-BCR signaling.

Gene Name: CD22

Production: Natural and recombinant mouse CD22. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: S22-R702

Target Details

Target:	CD22
Alternative Name:	CD22 (CD22 Products)
Gene ID:	12483
NCBI Accession:	NP_001036782
UniProt:	P35329

Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL mouse CD22 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernatants, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse CD22 standard solution and each sample be measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p> <p>ELISA Dilution: 156pg/mL-10,000pg/mL</p>
Sample Volume:	100 µL
Plate:	Pre-coated

Application Details

Restrictions: For Research Use only

Handling

Storage: RT, 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.