

Datasheet for KOA0777**Mouse CD22 ELISA Kit****Overview**

Description:	Mouse CD22 AccuSignal ELISA Kit - KOA0777
Item No.:	KOA0777
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	156 pg/ml - 10,000 pg/ml

Product Details

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 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.
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
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10,000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	CD22
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Reactivity:	Mouse
Immunogen:	Expression system for standard: NSO; Immunogen sequence: S22-R702
Purity/Specificity:	Natural and recombinant mouse CD22. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P35329 • NCBI - NP_001036782.1 • GenelD - 12483 • KOA0777 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Sensitivity <10 pg/ml DOE: @4°C 08/25/2023 @ -20°C 02/23/2024

Formulation

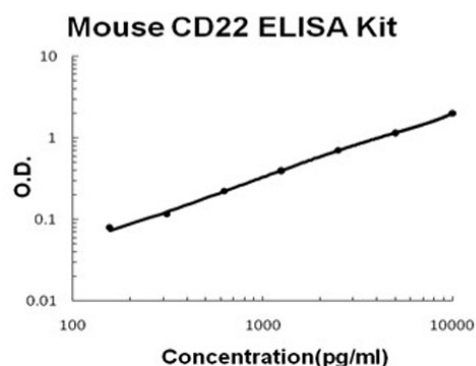
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	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.

Expiration: See kit insert for complete instructions.

Images



ELISA

Mouse CD22 ELISA Kit standard curve.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.