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Datasheet for ABIN6719923

CD44 ELISA Kit

Overview

Quantity:	1 kit
Target:	CD44
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	312 pg/mL - 20000 pg/mL
Minimum Detection Limit:	312 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:	<p>Synonyms: LHR, BA-1, CD44 antigen, CD44 Molecule, CD44_HUMAN, CDw44, Cell surface glycoprotein CD44, chondroitin sulfate proteoglycan 8, Extracellular matrix receptor III, GP90 lymphocyte homing/adhesion receptor, HCELL, hematopoietic cell E- and L-selectin ligand, Heparan sulfate proteoglycan, Hermes antigen, homing function and Indian blood group system, HSA, HUTCH-I, HUTCH1, Hyaluronate receptor, IN, LHR, MC56, MDU2, MDU3, MIC4, MUTCH1, PGP1, Phagocytic glycoprotein 1, Phagocytic glycoprotein I</p> <p>Background: CD44 is an integral cell membrane glycoprotein with a postulated role in matrix adhesion lymphocyte activation and lymph node homing. It contains 19 exons spanning 50</p>

Product Details

kb of genomic DNA. In humans, the CD44 antigen is encoded by the CD44 gene on Chromosome 11. The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis.

Gene Name: CD44

Production: Natural and recombinant rat CD44. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: Q22-E271

Target Details

Target:	CD44
Alternative Name:	CD44 (CD44 Products)
Gene ID:	25406
NCBI Accession:	NP_037056
UniProt:	P26051
Pathways:	Glycosaminoglycan Metabolic Process , Autophagy , Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 20,000pg/mL, 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL rat CD44 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 rat cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each rat CD44 standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 312pg/mL-20,000pg/mL

Sample Volume:	100 µL
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Application Details

Plate: Pre-coated

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.