

Rat CD44 PicoKine ELISA Kit | Cd44 elisa kit

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CATALOG #
AAA46123

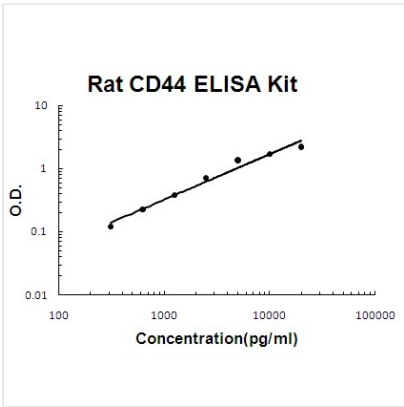
REACTIVITY
Rat

PRODUCT SYNONYMS

CD44 PicoKine; Rat CD44 PicoKine ELISA Kit; CD44 antigen; LHR; BA-1; CD 44; CD44; CD44 molecule(Indian blood group); CD44 molecule; CD44_HUMAN; CDw44; Cell surface glycoprotein CD44; chondroitin sulfate proteoglycan 8; CSPG8; ECMR-III; Epican; 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; MC56; MDU2; MDU3; MGC10468; MIC4; MUTCH1; PGP-1; PGP-I; PGP1; Phagocytic glycoprotein 1; Phagocytic glycoprotein I; Cd44 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat CD44
Sequence Length	364
Assay Range	312pg/ml-20,000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of rat CD44 in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO,Q22-E271
Assay Procedure Step 1	Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(ng/ml) 1.76 5.5 12.8 2.1 7.6 14 Standard deviation 0.09 0.35 0.73 0.16 0.52 0.88 CV(%) 5.1 6.4 5.7 7.8 6.9 6.3
Sample Data	Concentration(pg/ml) 0 312 625 1250 2500 5000 10,000 20,000 O.D. 0.005 0.118 0.224 0.378 0.702 1.346 1.694 2.178
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Rat CD44 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for Cd44 elisa kit	Principle of the assay: Rat CD44 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CD44 has been precoated onto 96-well plates. Standards(NSO, Q22 - E271) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CD44 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the rat CD44 amount of sample captured in plate. 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 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	564342041
NCBI GeneID	25406
NCBI Accession #	XP_006234693.1
NCBI GenBank Nucleotide #	XM_006234631.2
UniProt Accession #	P26051; Q99021
Molecular Weight	39,794 Da
NCBI Official Full Name	CD44 antigen isoform X7
NCBI Official Synonym Full Names	CD44 molecule (Indian blood group)
NCBI Official Symbol	Cd44
NCBI Official Synonym Symbols	CD44A; META4; RHAMM
NCBI Protein Information	CD44 antigen
UniProt Protein Name	CD44 antigen

UniProt Gene Name	Cd44
UniProt Synonym Gene Names	ECMR-III; PGP-1; PGP-I
UniProt Entry Name	CD44_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/cd44-picokine/46123>