

**Datasheet for KOA0855****Rat CD44 ELISA Kit****Overview**

|                      |                                         |
|----------------------|-----------------------------------------|
| <b>Description:</b>  | Rat CD44 AccuSignal ELISA Kit - KOA0855 |
| <b>Item No.:</b>     | KOA0855                                 |
| <b>Size:</b>         | 1 Kit                                   |
| <b>Applications:</b> | ELISA                                   |
| <b>Reactivity:</b>   | Rat                                     |
| <b>Range:</b>        | 312 pg/ml - 20,000 pg/ml                |

**Product Details**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Background:</b>         | 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. |
| <b>Synonyms:</b>           | 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                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Detection Kit Type:</b> | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Detection Range:</b>    | 312 pg/ml - 20,000 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Sensitivity:</b>        | <10 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Target Details**

**Gene Name:** CD44

|                            |                                                                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity:</b>         | Rat                                                                                                                                                                                                                   |
| <b>Immunogen:</b>          | Expression system for standard: NSO; Immunogen sequence: Q22-E271                                                                                                                                                     |
| <b>Purity/Specificity:</b> | Natural and recombinant rat CD44. There is no detectable cross-reactivity with other relevant proteins.                                                                                                               |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P26051</a></li><li>• <a href="#">NCBI - NP_037056.2</a></li><li>• <a href="#">GeneID - 25406</a></li><li>• <a href="#">KOA0855 Protocol</a></li></ul> |

## Application Details

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Tested Applications:</b> | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Application Note:</b>    | Useful in Sandwich ELISA for Quantitative Detection of Antigen. 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. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

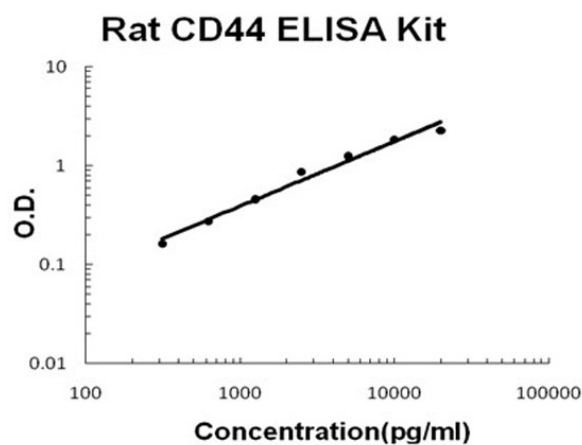
## Formulation

|                       |                |
|-----------------------|----------------|
| <b>Anticoagulant:</b> | Heparin Sodium |
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## Shipping & Handling

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| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | See kit insert for complete instructions.                                                                                                                                                                                                                                                                                     |

## Images

**ELISA**

Rat CD44 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.