

**Datasheet for KOA0295****Rat Rantes ELISA Kit****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Rat Rantes AccuSignal ELISA Kit - KOA0295 |
| <b>Item No.:</b>     | KOA0295                                   |
| <b>Size:</b>         | 1 Kit                                     |
| <b>Applications:</b> | ELISA                                     |
| <b>Reactivity:</b>   | Rat                                       |
| <b>Range:</b>        | 15.6 pg/ml - 1000 pg/ml                   |

**Product Details**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>         | Rantes(regulated on activation normal T cell expressed and secreted) is one of the natural ligands for the chemokine receptor CCR5 and potently suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor. Peripheral blood mononuclear cells or CD4(+) lymphocytes obtained from different individuals have wide variations in their ability to secrete RANTES. The Rantes gene product is predicted to be 10 kDa and, after cleavage of the signal peptide, approximately 8 kDa. Of the 68 residues, 4 are cysteines, and there are no sites for N-linked glycosylation. Rantes is expressed by cultured T cell lines that are Ag specific and growth factor dependent. |
| <b>Synonyms:</b>           | Beta chemokine RANTES, Beta chemokine RANTES precursor, C C motif chemokine 5, CCL5_HUMAN, Chemokine ligand 5, Chemokine CC Motif Ligand 5, EoCP, Eosinophil chemotactic cytokine, RANTES, Regulated upon activation normally T expressed and presumably secreted, SCYA5, SIS delta, SIS-delta, SISd, Small inducible cytokine A5, Small inducible cytokine subfamily A member 5, T cell specific protein p288, T cell specific protein RANTES, T-cell-specific protein RANTES, TCP 228, TCP228                                                                                                                                                                                                            |
| <b>Detection Kit Type:</b> | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Detection Range:</b>    | 15.6 pg/ml - 1000 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Sensitivity:</b>        | <1 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Target Details**

|                    |      |
|--------------------|------|
| <b>Gene Name:</b>  | CCL5 |
| <b>Reactivity:</b> | Rat  |

|                            |                                                                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | Expression system for standard: E.coli; Immunogen sequence: S24-S91                                                                                                                                                   |
| <b>Purity/Specificity:</b> | Natural and recombinant rat Rantes. There is no detectable cross-reactivity with other relevant proteins.                                                                                                             |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q6PED1</a></li><li>• <a href="#">NCBI - NP_112378.2</a></li><li>• <a href="#">GeneID - 81780</a></li><li>• <a href="#">KOA0295 Protocol</a></li></ul> |

## Application Details

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 15.6pg/ml rat Rantes 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, citrate) to each empty well. It is recommended that each rat Rantes 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

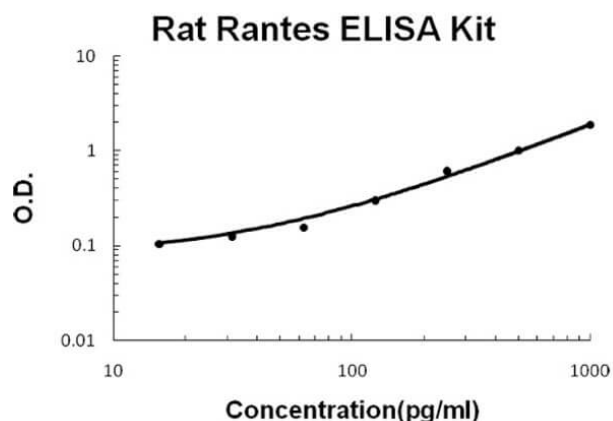
## Formulation

|                       |                |
|-----------------------|----------------|
| <b>Anticoagulant:</b> | Heparin Sodium |
|-----------------------|----------------|

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 Rantes AccuSignal ELISA Kit standard curve. Assay  
Range: 15.6pg/ml-1000pg/ml. Sensitivity: <1pg/ml.

**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.