

## Rat VEGF CLIA Kit | VEGF clia kit

VEGF (Rat) LumiAb ELISA Kit

CATALOG #  
**AAA318589**

REACTIVITY  
**Rat**

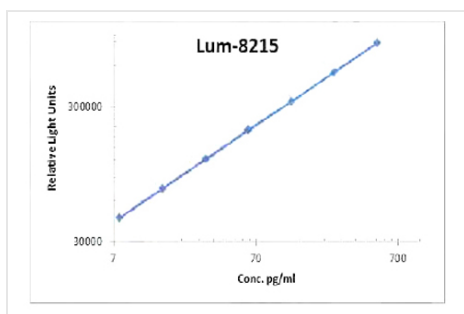
### PRODUCT SYNONYMS

VEGF; VEGF (Rat) LumiAb ELISA Kit; Rat VEGF; Vascular endothelial growth factor A/B; Vascular permeability factor; VEGF-related factor; VRF; VPF; VEGF clia kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                       |
| Specificity             | The LumiAb Rat RANTES ELISA is capable of recognizing both recombinant and naturally produced Rat RANTES proteins. The antigens listed below were tested at 50 ng/ml and exhibited 100% cross reactivity. |
| Sequence Length         | 325                                                                                                                                                                                                       |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                     |
| Sensitivity             | 8 pg/ml.                                                                                                                                                                                                  |
| Preparation and Storage | Store at 4 degree C for 6 months.                                                                                                                                                                         |

### IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

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| Related Product Information for VEGF clia kit | <p>Principle of the Assay: The LumiAb Rat RANTES Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Rat RANTES concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Rat RANTES while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a sensitive luminescent reaction to ensue upon substrate addition. When the Peroxide Enhancer solution is added, the reaction catalyzed by peroxidase yields light that is representative of the antigen concentration. After a brief incubation, the microplate can be read with a luminometer, allowing for generation of a standard curve and subsequent determination of protein concentration!!Background/Introduction: Rat RANTES or T-Cell Specific Protein RANTES, also known as C-C Motif Chemokine 5, is a 92 amino acid cytokine protein encoded by the Ccl5 gene located at locus 10q26 on chromosome 10. After initial synthesis of the peptide, the 24 residue signal sequence is proteolytically removed, thus allowing for RANTES to properly fold and mature. RANTES, a member of the intercrine beta (chemokine C-C) family, is essentially a chemoattractant for blood monocytes, memory T-helper cells and eosinophils. The chemokine tends to causes the release of histamine from basophils and activates eosinophils. Moreover, it may play a role in cellular responses to viral infections in testicular somatic cells.</p> |
| Product Categories/Family for VEGF clia kit   | <a href="#">Luminometer Sandwich ELISA</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | <a href="#">160358797</a>                      |
| NCBI GeneID                      | <a href="#">83785</a>                          |
| NCBI Accession #                 | <a href="#">NP_001103804.1</a>                 |
| NCBI GenBank Nucleotide #        | <a href="#">NM_001110334.2</a>                 |
| UniProt Accession #              | <a href="#">P16612</a>                         |
| NCBI Official Full Name          | vascular endothelial growth factor A isoform 3 |
| NCBI Official Synonym Full Names | vascular endothelial growth factor A           |
| NCBI Official Symbol             | Vegfa                                          |
| NCBI Official Synonym Symbols    | VPF; Vegf; VEGF-A; VEGF111; VEGF164            |
| NCBI Protein Information         | vascular endothelial growth factor A           |
| UniProt Protein Name             | Vascular endothelial growth factor A           |
| UniProt Gene Name                | <b>Vegfa</b>                                   |
| UniProt Synonym Gene Names       | Vegf; VEGF-A; VPF                              |
| UniProt Entry Name               | VEGFA_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.