

## Human EG-VEGF ELISA Kit | EG-VEGF elisa kit

EG-VEGF Human ELISA Kit

|                              |                            |                              |
|------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA58906</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|------------------------------|----------------------------|------------------------------|

### PRODUCT SYNONYMS

EG-VEGF; EG-VEGF Human ELISA Kit; Human EG-VEGF; EG-VEGF elisa kit

### PRODUCT SPECIFICATIONS

|                                               |                                                                      |
|-----------------------------------------------|----------------------------------------------------------------------|
| Reactivity                                    | Human                                                                |
| Samples                                       | Human serum, plasma, or cell culture supernatants.                   |
| Assay Type                                    | Quantitative Sandwich                                                |
| Sensitivity                                   | < 7 pg/ml                                                            |
| Applicable Applications for EG-VEGF elisa kit | ELISA                                                                |
| Preparation and Storage                       | Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months. |

### IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a Human EG-VEGF ELISA kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A-not applicable)

| X | pg/ml | 0     | 15.6  | 31.2  | 62.5  | 125   | 250   | 500   | 1000  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Y | OD450 | 0.054 | 0.088 | 0.135 | 0.172 | 0.347 | 0.711 | 1.433 | 2.907 |

Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for EG-VEGF elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-EG-VEGF polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-EG-VEGF polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 EG-VEGF amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of EG-VEGF can be calculated.

Background/Introduction: Endocrine gland-derived vascular endothelial growth factor (EG-VEGF) is a human protein encoded by the PROKR1 gene. It induces proliferation, migration, and fenestration in capillary endothelial cells derived from endocrine glands. EG-VEGF is mitogenic and chemoattractive and able to induce fenestration. Its expression is induced by hypoxia, and there is an HIF1 binding site present on EG-VEGF. It is also able to induce angiogenesis and ovarian cyst formation.

### NCBI AND UNIPROT INFORMATION

|             |                          |
|-------------|--------------------------|
| NCBI GI #   | <a href="#">37182488</a> |
| NCBI GeneID | <a href="#">84432</a>    |

|                                  |                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| UniProt Accession #              | P58294; Q5VWD4; Q8TC69                                                                                                            |
| Molecular Weight                 | 11,715 Da                                                                                                                         |
| NCBI Official Full Name          | EG-VEGF                                                                                                                           |
| NCBI Official Synonym Full Names | prokineticin 1                                                                                                                    |
| NCBI Official Symbol             | PROK1                                                                                                                             |
| NCBI Official Synonym Symbols    | PK1; PRK1; EGVEGF                                                                                                                 |
| NCBI Protein Information         | prokineticin-1; EG-VEGF; mambakine; black mamba toxin-related protein; endocrine-gland-derived vascular endothelial growth factor |
| UniProt Protein Name             | Prokineticin-1                                                                                                                    |
| UniProt Gene Name                | <b>PROK1</b>                                                                                                                      |
| UniProt Synonym Gene Names       | EG-VEGF                                                                                                                           |
| UniProt Entry Name               | PROK1_HUMAN                                                                                                                       |

**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/human-elisa-kits/eg-veg/58906>