

## Human VEGFR2/KDR ELISA Kit | KDR elisa kit

Human VEGFR2/KDR PicoKine ELISA Kit

CATALOG #  
**AAA45337**

REACTIVITY  
**Human**

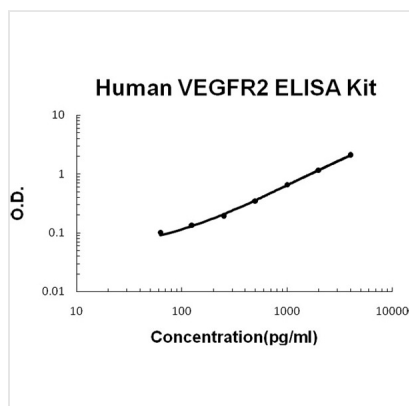
### PRODUCT SYNONYMS

VEGFR2/KDR; Human VEGFR2/KDR PicoKine ELISA Kit; Vascular endothelial growth factor receptor 2; kinase insert domain receptor (a type III receptor tyrosine kinase); CD309; Fetal liver kinase 1; FLK1; KDR; Kinase insert domain receptor; Kinase insert domain receptor (a type III receptor tyrosine kinase); Protein tyrosine kinase receptor Flk 1; Tyrosine kinase growth factor receptor; VEGFR; VEGFR 2; VEGFR2; KDR elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                 |
| Specificity             | Natural and recombinant human VEGFR2                                                                                                                  |
| Sequence Length         | 1356                                                                                                                                                  |
| Samples                 | Cell culture supernates, serum and plasma (heparin, EDTA)                                                                                             |
| Assay Type              | Sandwich                                                                                                                                              |
| Detection Range         | 62.5pg/ml-4000pg/ml                                                                                                                                   |
| Sensitivity             | < 4pg/ml                                                                                                                                              |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.      |
| Inter-assay Precision   | Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)                            |

### IMAGES



Standard Curve (Sample)

Human VEGFR2/KDR PicoKine ELISA Kit standard curve

## ADDITIONAL INFORMATION

### Related Product Information for KDR elisa kit

**Principle of the assay:** human VEGFR2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for VEGFR2 has been precoated onto 96-well plates. Standards(NSO, A20-E764) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for VEGFR2 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 human VEGFR2 amount of sample captured in plate.

**Background:** Vascular endothelial growth factor receptor 2 (VEGFR-2) also known as Kinase insert domain receptor (KDR, a type III receptor tyrosine kinase) is a VEGF receptor. Through in situ hybridization of a genomic DNA probe to metaphase chromosomes, VEGFR2 was localized to 4q11-->q12. VEGF receptor 2 and the adherens junction act as shear-stress cotransducers, mediating the transduction of shear-stress signals into vascular endothelial cells.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 9087218                                                                                                                                                                                   |
| NCBI GeneID                      | 3791                                                                                                                                                                                      |
| UniProt Accession #              | P35968; O60723; Q14178; A2RRS0; B5A925; C5IFA0                                                                                                                                            |
| Molecular Weight                 | 79,634 Da                                                                                                                                                                                 |
| NCBI Official Full Name          | Vascular endothelial growth factor receptor 2                                                                                                                                             |
| NCBI Official Synonym Full Names | kinase insert domain receptor (a type III receptor tyrosine kinase)                                                                                                                       |
| NCBI Official Symbol             | KDR                                                                                                                                                                                       |
| NCBI Official Synonym Symbols    | FLK1; CD309; VEGFR; VEGFR2                                                                                                                                                                |
| NCBI Protein Information         | vascular endothelial growth factor receptor 2; soluble VEGFR2; fetal liver kinase 1; fetal liver kinase-1; protein-tyrosine kinase receptor Flk-1; tyrosine kinase growth factor receptor |
| UniProt Protein Name             | Vascular endothelial growth factor receptor 2                                                                                                                                             |
| UniProt Gene Name                | <b>KDR</b>                                                                                                                                                                                |
| UniProt Synonym Gene Names       | FLK1; VEGFR2; VEGFR-2; FLK-1; KDR                                                                                                                                                         |
| UniProt Entry Name               | VGFR2_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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