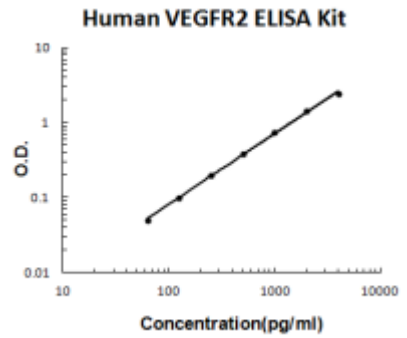
Human VEGFR2/KDR ELISA Kit, Cat# 200-860-KDR (96 tests)

Human VEGFR2/KDR ELISA Kit is a highly sensitive sandwich ELISA for Quantitative Detection of Human VEGFR2/KDR in serum, plasma and other biological fluid. For research use only (RUO).



Human VEGFR2/KDR ELISA Kit Features

- Anti- Human KDR antibody pre-coated, stabilized, ready-to-use 96-well strip plate (8x12 wells),.
- Human KDR Standards (62.5-4000 pg/ml)
- 100 ul samples (diluted serum or plasma) and then 100 µl KDR antibodies.
- 90+60+30+25 min incubation steps at room temp.
- Sensitivity ~< 4 pg/mL
- Capture/Detection Antibodies: The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat.
- Specificity: Natural and recombinant Human KDR
- Cross Reactivity: There is no detectable cross-reactivity with other relevant proteins.
- Validity &Storage: 6 months (2-8°C)

Contains all necessary reagents. For in vitro research use only.

Assay Procedure: Allow all reagents to reach room temperature. Arrange and label required number of strips.

Step 1. Pipet 100 ul standard and samples (**diluted)** into wells. Shake gently; cover the plate and Incubate at 37oC for **90 min**.
Step 2. Remove the well content by aspiration and adsorb on paper towels**.** Add 100 ul of **Biotin- antibody** to each well. Shake gently; cover the plate and Incubate at 37oC for **60 min**.
Step 3. **Wash the wells 3 times with wash buffer. Add 100 ul of Avidin-Biotin-Peroxidase Complex** to each well cover the plate and Incubate at 37oC for **30 min**.
Step 4. **Wash the wells 5 times** with wash buffer. **Add 90 ul TMB solution** to all wells. Shake gently and Incubate for **20-25 min** at 37oC for color (blue) development.
Step 5 . Add **100 ul of stop solution** into each well and mix gently (blue color turns yellow). **Measure at 450 nm**. Determine KDR concentration in each sample using the standards (results are expressed in pg/ml).

Calculation of Results

Calculations: Calculate the Net A450 values of the duplicate (deduct zero values). Plot the KDR standard concentration versus the net A450 using a 4-point log-log curve. Calculate the samples values from the standard curve.
Precision: **Intra-assay** (CV<7.8 %) **Inter-assay** (CV<8.9%).

General Information

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.

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