

Rat kinase insert domain receptor (a type III receptor tyrosine kinase) ELISA Kit | KDR elisa kit

Rat Vascular endothelial cell growth factor receptor 2, VEGFR-2/Flk-1 ELISA Kit

CATALOG # AAA80758	REACTIVITY Rat
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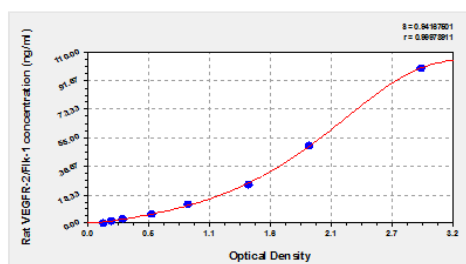
PRODUCT SYNONYMS

kinase insert domain receptor (a type III receptor tyrosine kinase); Rat Vascular endothelial cell growth factor receptor 2; VEGFR-2/Flk-1 ELISA Kit; VEGFR-2/Flk-1 ELISA kit; CD309; FLK1; VEGFR; VEGFR2; fetal liver kinase-1; kinase insert domain receptor; protein-tyrosine kinase receptor Flk-1; soluble VEGFR2; tyrosine kinase growth factor receptor; vascular endothelial growt; KDR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat KDR. No significant cross-reactivity or interference between Rat KDR and analogues was observed.
Sequence Length	1343
Samples	Serum, plasma, tissue homogenates
Detection Range	1.56 ng/ml-100 ng/ml
Sensitivity	0.39 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Angiogenesis
Protein Biological Process 3	Angiogenesis
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for KDR elisa kit

Introduction: Vascular endothelial cell growth factor (VEGF), also known as vascular permeability factor, is an endothelial cell mitogen, which stimulates angiogenesis by binding to specific receptors (VEGFRs) on the surface of vascular endothelial cells. The VEGF ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability. All the three receptors for VEGF, VEGFR1~3, belong to CSF-1/PDGF receptor subfamily of receptor tyrosine kinase superfamily (RTKs), and contains seven Ig-like C2-type domains in the ECD, as well as a intracellular protein kinase domain. VEGFR2, also called as KDR or Flk-1, is identified as the receptor for VEGF and VEGFC and an early marker for endothelial cell progenitors, whose expression is restricted to endothelial cells in vivo. The adaptor protein SHB has been shown to interact with VEGFR2 in receptor tyrosine kinase signaling. In addition, VEGFR2 is able to interact with HIV-1 extracellular Tat protein upon VEGF activation, and seems to enhance angiogenesis in Kaposi's sarcoma lesions.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to VEGFR-2/Flk-1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for VEGFR-2/Flk-1 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain VEGFR-2/Flk-1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of VEGFR-2/Flk-1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6981128
NCBI GeneID	25589
NCBI Accession #	NP_037194.1
NCBI GenBank Nucleotide #	NM_013062.1
UniProt Accession #	O08775
Molecular Weight	150,394 Da
NCBI Official Full Name	vascular endothelial growth factor receptor 2
NCBI Official Synonym Full Names	kinase insert domain receptor
NCBI Official Symbol	Kdr
NCBI Official Synonym Symbols	Vegfr-2
NCBI Protein Information	vascular endothelial growth factor receptor 2; FLK-1; fetal liver kinase 1; kinase insert domain protein receptor; protein-tyrosine kinase receptor flk-1; FLK1 kinase insert domain receptor (VEGF receptor 2); FLK1 kinase insert domain receptor (a type III receptor tyrosine kinase) (VEGF receptor 2)
UniProt Protein Name	Vascular endothelial growth factor receptor 2
UniProt Gene Name	Kdr
UniProt Synonym Gene Names	Flk1; VEGFR-2; FLK-1
UniProt Entry Name	VGFR2_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.

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Online datasheet: <https://stage.aaabiotech.com/kdr-rat-elisa-kits/kinase-insert-domain-receptor-a-type-iii-receptor-tyrosine-kinase/80758>