

Mouse VEGFR2/KDR ELISA Kit | KDR elisa kit

Mouse VEGFR2/KDR PicoKine ELISA Kit

CATALOG #
AAA45845

REACTIVITY
Mouse

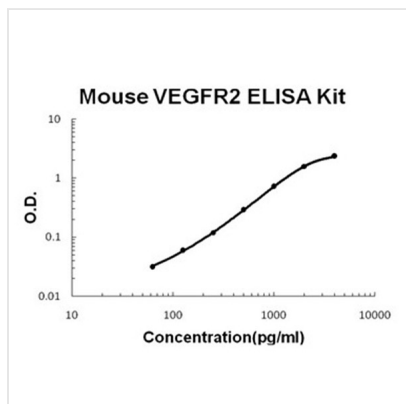
PRODUCT SYNONYMS

VEGFR2/KDR; Mouse 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	Mouse
Specificity	Natural and recombinant mouse VEGFR2
Sequence Length	1367
Samples	Cell culture supernates and serum
Assay Type	Sandwich
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	< 2pg/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)

Mouse VEGFR2/KDR PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for KDR elisa kit

Principle of the assay: mouse VEGFR2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for VEGFR2 has been precoated onto 96-well plates. Standards(NSO, A20-E762) 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 mouse VEGFR2 amount of sample captured in plate.

Background: Vascular endothelial growth factor receptor 2 (VEGFR-2) is a VEGF receptor. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It is mapped to 4q12. This gene encodes one of the two receptors of the VEGF. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc. VEGF receptor 2 and the adherens junction act as shear-stress cotransducers, mediating the transduction of shear-stress signals into vascular endothelial cells. In addition to those, VEGFR-2 is also a positive functional marker defining stem cells and distinguishing them from progenitors.

NCBI AND UNIPROT INFORMATION

NCBI GI #	549321
NCBI GeneID	16542
UniProt Accession #	P35918 ; C5H7S5
Molecular Weight	75,230 Da
NCBI Official Full Name	Vascular endothelial growth factor receptor 2
NCBI Official Synonym Full Names	kinase insert domain protein receptor
NCBI Official Symbol	Kdr
NCBI Official Synonym Symbols	Flk1; Ly73; Flk-1; Krd-1; VEGFR2; VEGFR-2; sVEGFR-2; 6130401C07
NCBI Protein Information	vascular endothelial growth factor receptor 2; kinase NYK; VEGF receptor-2; fetal liver kinase 1; protein-tyrosine kinase receptor flk-1; vascular endothelial growth factor receptor-2; vascular endothelial growth factor receptor-3; vascular endothelial growth factor receptor- 2; soluble vascular endothelial growth factor receptor 2
UniProt Protein Name	Vascular endothelial growth factor receptor 2
UniProt Gene Name	Kdr
UniProt Synonym Gene Names	Flk-1; Flk1; VEGFR-2; FLK-1
UniProt Entry Name	VGFR2_MOUSE

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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