

Human Vascular Endothelial Cell Growth Factor Receptor 2 (VEGFR-2/Flk-1) ELISA Kit | VEGFR2 elisa kit

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CATALOG # AAA331949	REACTIVITY Human
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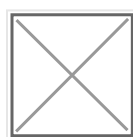
PRODUCT SYNONYMS

Vascular Endothelial Cell Growth Factor Receptor 2 (VEGFR-2/Flk-1); Human Vascular Endothelial Cell Growth Factor Receptor 2 (VEGFR-2/Flk-1) ELISA Kit; KDR; CD309; FLK1; VEGFR; fetal liver kinase-1; kinase insert domain receptor; protein-tyrosine kinase receptor Flk-1; soluble VEGFR2; tyrosine kinase growth factor receptor; vascular endothelial growt; VEGFR2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Vascular endothelial cell growth factor receptor 2 (VEGFR-2/Flk-1) ELISA Kit has high sensitivity and excellent specificity for detection of Human KDR. No significant cross-reactivity or interference between Human KDR and analogues was observed.
Sequence Length	1356
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Vascular endothelial cell growth factor receptor 2 (VEGFR-2/Flk-1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for VEGFR2 elisa kit	Description: This Human Vascular endothelial cell growth factor receptor 2 (VEGFR-2/Flk-1) ELISA Kit employs a two-site sandwich ELISA to quantitate KDR in samples. An antibody specific for KDR has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any KDR present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KDR is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of KDR bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. KDR encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. 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.. Mutations of KDR are implicated in infantile capillary hemangiomas.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11321597
NCBI GeneID	3791
NCBI Accession #	NP_002244.1
NCBI GenBank Nucleotide #	NP_002244.1
UniProt Accession #	P35968
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	FLK1; CD309; VEGFR; VEGFR2
NCBI Protein Information	vascular endothelial growth factor receptor 2
UniProt Protein Name	Vascular endothelial growth factor receptor 2
UniProt Gene Name	KDR
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.