

Human VEGFR2/KDR/Flk-1/CD309 ELISA Kit | VEGFR2/KDR/Flk-1/CD309 elisa kit

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CATALOG #
AAA258320

REACTIVITY
Human

PRODUCT SYNONYMS

VEGFR2/KDR/Flk-1/CD309; Human VEGFR2/KDR/Flk-1/CD309 ELISA Kit; VEGFR2/KDR ELISA Kit; Human; kinase insert domain receptor; CD309 ELISA Kit; Flk-1 ELISA Kit; FLK1 ELISA Kit; VEGFR ELISA Kit; VEGFR2 ELISA Kit; VEGFR2/KDR/Flk-1/CD309 elisa kit

PRODUCT SPECIFICATIONS

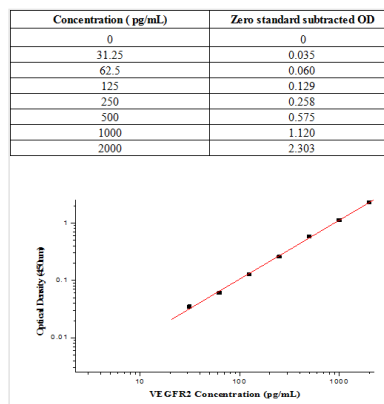
Reactivity	Human
Specificity	For the quantitative determination of Human VEGFR2/KDR/Flk-1/CD309 concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	31.25-2000pg/mL
Sensitivity	13.57pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

IMAGES

Recombinant human			
IL-1	IL-2	IL-33	IL-10
IL-8	TNF- α	IL-4	IL-6
IFN- γ	MIP-1 β	TIMP-1	TIMP-2
GM-CSF	SCF	PDGF	VEGF
EGF	FGF acidic	FGF basic	FGF-10
Flt-3	G-CSF	HGF	IGF-1
KGF FGF-7	M-CSF	β -NGF	PIGF
VEGF121	VEGF165	VEGF-D	VEGF R3
Recombinant mouse			
Flt-3	GM-CSF	M-CSF	PIGF-2
Recombinant rat			
GM-CSF			

Application Data

This assay recognizes both recombinant and natural Human VEGFR2. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for VEGFR2/KDR/Flk-1/CD309 elisa kit	This VEGFR2/KDR ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human VEGFR2/KDR protein in Serum. It contains recombinant Human VEGFR2/KDR, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: VEGFR2 also called 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. VEGFR2 was shown to be the primary signal transducer for angiogenesis and the development of pathological conditions such as cancer and diabetic retinopathy. It has been shown that VEGFR2 is expressed mainly in the endothelial cells, and the expression is upregulated in the tumor vasculature. Thus the inhibition of VEGFR2 activity and its downstream signaling are important targets for the treatment of diseases involving angiogenesis. VEGFR2 transduces the major signals for angiogenesis via its strong tyrosine kinase activity. However, unlike other representative tyrosine kinase receptors, VEGFR2 does not use the Ras pathway as major downstream signaling but rather uses the phospholipase C-protein kinase C pathway to signal mitogen-activated protein (MAP)-kinase activation and DNA synthesis. VEGFR2 is a direct and major signal transducer for pathological angiogenesis, including cancer and diabetic retinopathy, in cooperation with many other signaling partners; thus, VEGFR2 and its downstream signaling appear to be critical targets for the suppression of these diseases. VEGF and VEGFR2-mediated survival signaling are critical to endothelial cell survival, maintenance of the vasculature and alveolar structure, and regeneration of lung tissue. Reduced VEGF and VEGFR2 expression in emphysematous lungs has been linked to increased endothelial cell death and vascular regression.
References	Shibuya M. (2006) Vascular endothelial growth factor (VEGF)-Receptor2: its biological functions, major signaling pathway, and specific ligand VEGF-E. Endothelium. 13(2): 63-9. Marwick JA, et al. (2010) Cigarette smoke regulates VEGFR2-mediated survival signaling in rat lungs. J Inflamm (Lond). 7(1): 11. Bruns AF, et al. (2010) Ligand-stimulated VEGFR2 signaling is regulated by co-ordinated trafficking and proteolysis. Traffic. 11(1): 161-74.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/vegfr2-kdr-flk-1-cd309/258320>