

Datasheet for ABIN6719857 **VEGFR2/CD309 ELISA Kit**



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1 Image

Overview

Quantity:	1 kit
Target:	VEGFR2/CD309 (VEGFR2)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	62.5 pg/mL - 4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: 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, Vascular endothelial growth factor receptor 2, VEGFR, VEGFR 2, VEGFR2</p> <p>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</p>

Product Details

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.

Gene Name: KDR

Production: Natural and recombinant mouse VEGFR2. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: A20-E762

Target Details

Target:	VEGFR2/CD309 (VEGFR2)
Alternative Name:	VEGFR2 - KDR (VEGFR2 Products)
Gene ID:	16542
NCBI Accession:	NP_034742
UniProt:	P35918
Pathways:	RTK Signaling , Glycosaminoglycan Metabolic Process , Signaling Events mediated by VEGFR1 and VEGFR2 , Growth Factor Binding , Regulation of long-term Neuronal Synaptic Plasticity , VEGF Signaling

Application Details

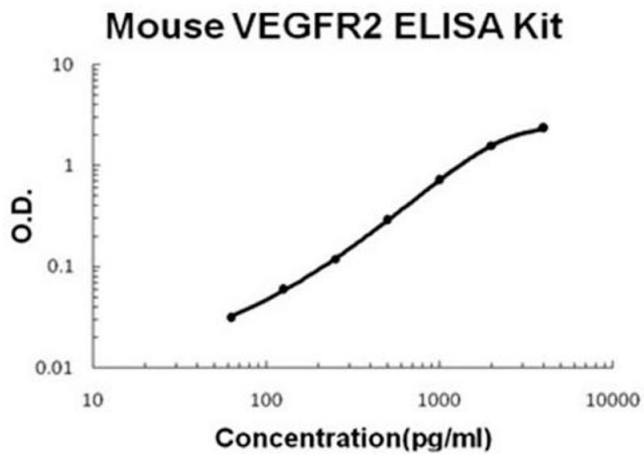
Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL mouse VEGFR2 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates or serum to each empty well. It is recommended that each mouse VEGFR2 standard solution and each sample be measured in duplicate. ELISA Dilution: 62.5pg/mL-4000pg/mL
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage: RT,4 °C,-20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images



ELISA

Image 1. Mouse VEGFR2/KDR Accusignal ELISA Kit Mouse VEGFR2/KDR AccuSignal ELISA Kit standard curve. Assay Range: 62.5pg/ml-4000pg/ml. Sensitivity: <2pg/ml.