

Datasheet for KOA0360**Mouse VEGFR2 - KDR ELISA Kit****Overview**

Description:	Mouse VEGFR2/KDR AccuSignal ELISA Kit - KOA0360
Item No.:	KOA0360
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	62.5 pg/ml - 4000 pg/ml

Product Details

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.
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
Detection Kit Type:	ELISA Kit
Detection Range:	62.5 pg/ml - 4000 pg/ml
Sensitivity:	<2 pg/ml

Target Details

Gene Name:	KDR
Reactivity:	Mouse

Immunogen:	Expression system for standard: NSO; Immunogen sequence: A20-E762
Purity/Specificity:	Natural and recombinant mouse VEGFR2. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P35918 • NCBI - NP_034742.2 • GeneID - 16542 • KOA0360 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Shipping & Handling

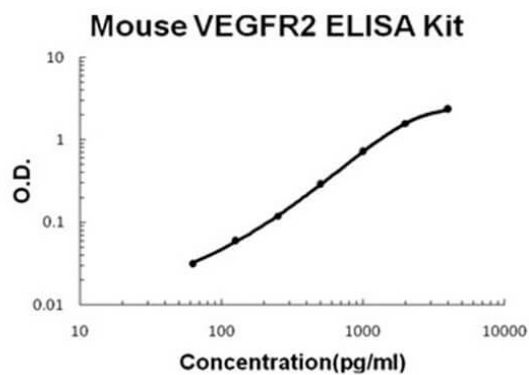
Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C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

Images

ELISA

Mouse VEGFR2/KDR AccuSignal ELISA Kit standard curve.

Assay Range: 62.5pg/ml-4000pg/ml. Sensitivity: <2pg/ml.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.