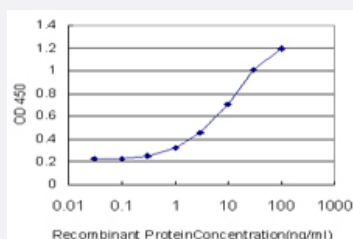


KDR monoclonal antibody (M04), clone 4B5

Catalog # H00003791-M04

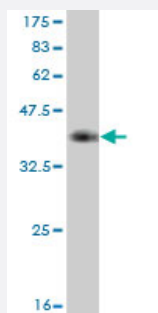
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged KDR is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant KDR.
Immunogen	KDR (NP_002244, 31 a.a. ~ 130 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	LPRLSIQKDILTIKANTTLQITCRGQRDLWLWPNNQSGSEQRVEVTECS DGLFCKLTIPKVIGNDT GAYKCFYRETDLASVIYVYVQDYRSPFIASVS
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (78)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged KDR is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — KDR

Entrez GeneID	3791
GeneBank Accession#	NM_002253
Protein Accession#	NP_002244
Gene Name	KDR
Gene Alias	CD309, FLK1, VEGFR, VEGFR2
Gene Description	kinase insert domain receptor (a type III receptor tyrosine kinase)
Omim ID	191306 602089
Gene Ontology	Hyperlink

Gene Summary

Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene 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 this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq]

Other Designations

soluble VEGFR2|vascular endothelial growth factor receptor 2

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [Focal adhesion](#)
- [VEGF signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Angina Pectoris](#)
- [Anoxia](#)
- [Asthma](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cerebral Hemorrhage](#)
- [Colorectal Neoplasms](#)
- [Coronary Disease](#)

- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Femur Head Necrosis](#)
- [Foot Dermatoses](#)
- [Genetic Predisposition to Disease](#)
- [Gilbert Disease](#)
- [Glioma](#)
- [Hot Flashes](#)
- [Hyperbilirubinemia](#)
- [Hypercholesterolemia](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Leukemia](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphedema](#)
- [Macular Degeneration](#)
- [Metabolic Syndrome X](#)
- [Mucocutaneous Lymph Node Syndrome](#)

- [Myocardial Infarction](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Osteonecrosis](#)
- [Osteoporosis](#)
- [Psychomotor Performance](#)
- [Recurrence](#)
- [Sarcoidosis](#)
- [Scleroderma](#)
- [Stroke](#)
- [Uterine Cervical Neoplasms](#)