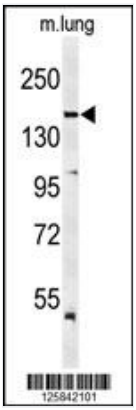
KDR Antibody – Rabbit Polyclonal

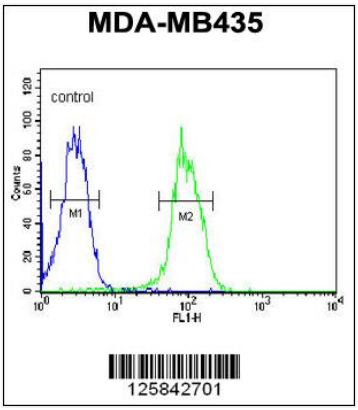
PRODUCT OVERVIEW

Product Name	KDR (Y1175), Polyclonal Antibody
Full Product Name	KDR (Y1175) Antibody
Product Gene Name	anti-KDR antibody
Product Synonym Names	Vascular endothelial growth factor receptor 2; VEGFR-2; Fetal liver kinase 1; FLK-1; Kinase insert domain receptor; KDR; Protein-tyrosine kinase receptor flk-1; CD309; KDR; FLK1; VEGFR2
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human, mouse
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This KDR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1153-1182 amino acids from human KDR.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	KDR (Y1175) peptide (MBS9227107) is used for blocking the activity of KDR (Y1175) antibody (MBS9207650)
Molecular Weight	151527
Immunogen Sequence Positions	1153-1182
OMIM	191306
3D Structure	ModBase 3D Structure for P35968
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-KDR antibody	Cancer; Cardiovascular; Immunology; Metabolism; Neuroscience; Signal Transduction
Applications Tested/Suitable for anti-KDR antibody	Western Blot (WB), ELISA (EIA), Flow Cytometry (FC/FACS)
Application Notes for anti-KDR antibody	WB~~1:1000
Related Product Information for anti-KDR antibody	KDR is a major growth factor for endothelial cells. This protein encodes one of the two receptors of the KDR. 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..

Product References and Citations for anti-KDR antibody	Huang, D., et al. Cancer Res. 70(3):1053-1062(2010) Sentilhes, L., et al. J. Neuropathol. Exp. Neurol. 69(2):111-128(2010) Lamalice, L., et al. J. Biol. Chem. 281(45):34009-34020(2006) Meyer, R.D., et al. J. Biol. Chem. 277(30):27081-27087(2002)
Other Notes	Small volumes of anti-KDR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KDR purchase	MBS9207650 is an antibody targeting KDR. Also known as KDR (Y1175) Antibody. Reactive in Human, mouse. Host: Rabbit.



Western Blot (WB) of anti-KDR antibody
Western blot analysis of KDR (Y1175) Antibody in mouse lung tissue lysates (35ug/lane). KDR (arrow) was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-KDR antibody
KDR (Y1175) Antibody flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KDR. It may not necessarily be applicable to this product.

NCBI GI #	11321597
NCBI GeneID	3791
NCBI Accession #	NP_002244.1
UniProt Primary Accession #	P35968
UniProt Secondary Accession #	O60723; Q14178; A2RRS0; B5A925; C5IFA0
UniProt Related Accession #	P35968
GenBank Nucleotide #	NM_002253.2
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
UniProt Protein Name	Vascular endothelial growth factor receptor 2
UniProt Synonym Protein Names	Fetal liver kinase 1; FLK-1; Kinase insert domain receptor; KDR; Protein-tyrosine kinase receptor flk-1; CD_antigen: CD309
Protein Family	Vascular endothelial growth factor receptor
UniProt Gene Name	KDR
UniProt Synonym Gene Names	FLK1; VEGFR2; VEGFR-2; FLK-1; KDR

UniProt Entry Name	VGFR2_HUMAN
NCBI Protein Information	vascular endothelial growth factor receptor 2
NCBI Summary for KDR	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, May 2009]
UniProt Comments for KDR	VEGFR2: a receptor tyrosine kinase of the VEGFR family. High affinity receptor for VEGF and VEGF-C. Ligand binding induces autophosphorylation and activation. Activated receptor recruits proteins including Shc, GRB2, PI3K, Nck, SHP-1 and SHP-2. Plays a key role in vascular development and regulation of vascular permeability. Protein type: Protein kinase, TK; Membrane protein, integral; EC 2.7.10.1; Kinase, protein; Protein kinase, tyrosine (receptor); TK group; VEGFR family Chromosomal Location of Human Ortholog: 4q11-q12 Cellular Component: Golgi apparatus; integral to plasma membrane; endoplasmic reticulum; cytoplasmic membrane-bound vesicle; early endosome; extracellular region; plasma membrane; nucleus; cell junction; endosome; lipid raft; external side of plasma membrane Molecular Function: integrin binding; vascular endothelial growth factor receptor activity; protein binding; growth factor binding; protein-tyrosine kinase activity; Hsp90 protein binding; receptor signaling protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; ATP binding Biological Process: extracellular matrix organization and biogenesis; peptidyl-tyrosine phosphorylation; positive regulation of positive chemotaxis; viral reproduction; protein amino acid autophosphorylation; cell maturation; calcium ion homeostasis; regulation of cell shape; positive regulation of MAPKKK cascade; ovarian follicle development; positive regulation of focal adhesion formation; positive regulation of mesenchymal cell proliferation; positive regulation of cell proliferation; angiogenesis; vasculogenesis; endothelial cell differentiation; cell fate commitment; embryonic hemopoiesis; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of angiogenesis; cell migration during sprouting angiogenesis; branching morphogenesis of a tube; positive regulation of endothelial cell proliferation; positive regulation of protein amino acid phosphorylation; lymph vessel development; vascular endothelial growth factor receptor signaling pathway; alveolus development; surfactant homeostasis; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of nitric-oxide synthase biosynthetic process; positive regulation of cell migration; negative regulation of apoptosis Disease: Hemangioma, Capillary Infantile
Research Articles on KDR	**1.** findings show that VEGF-R overexpression occurs frequently in OSCC and could have clinical implications
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