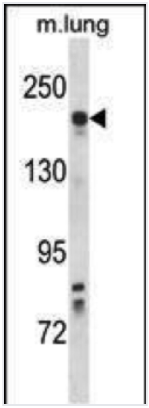
KDR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Kdr, Polyclonal Antibody
Full Product Name	Kdr, CT (Kdr, Flk-1, Flk1, Vascular endothelial growth factor receptor 2, Fetal liver kinase 1, Kinase NYK, Protein-tyrosine kinase receptor flk-1) (Biotin)
Product Gene Name	anti-Kdr antibody
Product Synonym Names	Kdr; Flk-1; Flk1; Vascular endothelial growth factor receptor 2; Fetal liver kinase 1; Kinase NYK; Protein-tyrosine kinase receptor flk-1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes mouse Kdr.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	75,230 Da
3D Structure	ModBase 3D Structure for P35918
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 920-949 in the C-terminal region of mouse Kdr.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-Kdr antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Kdr antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-Kdr antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-Kdr antibody	Receptor for VEGF or VEGFC. Has a tyrosine-protein kinase activity. The VEGF-kinase ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability.
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	MBS6312997 is an antibody targeting Kdr. Also known as Kdr, CT (Kdr, Flk-1, Flk1, Vascular endothelial growth factor receptor 2, Fetal liver kinase 1, Kinase NYK, Protein-tyrosine kinase receptor flk-1) (Biotin). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-Kdr antibody
Western Blot analysis in mouse lung tissue lysates (35ug/lane), usingMBS642874. This demonstrates that MBS642874 detected the Kdr protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	549321
NCBI GeneID	16542
NCBI Accession #	P35918.1
UniProt Primary Accession #	P35918
UniProt Secondary Accession #	C5H7S5
UniProt Related Accession #	P35918
NCBI Official Full Name	Vascular endothelial growth factor receptor 2
NCBI Official Synonym Full Names	kinase insert domain protein receptor
NCBI Official Symbol	Kdr
NCBI Official Synonym Symbols	Flk1; Ly73; Flk-1; Krd-1; VEGFR2; VEGFR-2; sVEGFR-2; 6130401C07
UniProt Protein Name	Vascular endothelial growth factor receptor 2
UniProt Synonym Protein Names	Fetal liver kinase 1; FLK-1; Kinase NYK; Protein-tyrosine kinase receptor flk-1; CD_antigen: CD309
Protein Family	Vascular endothelial growth factor receptor
UniProt Gene Name	Kdr
UniProt Synonym Gene Names	Flk-1; Flk1; VEGFR-2; FLK-1
UniProt Entry Name	VGFR2_MOUSE
NCBI Protein Information	vascular endothelial growth factor receptor 2; kinase NYK; VEGF receptor-2; fetal liver kinase 1; protein-tyrosine kinase receptor flk-1; vascular endothelial growth factor receptor-2; vascular endothelial growth factor receptor-3; vascular endothelial gr

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: Kinase, protein; Protein kinase, tyrosine (receptor); Membrane protein, integral; EC 2.7.10.1; Protein kinase, TK; TK group; VEGFR family Cellular Component: Golgi apparatus; neuron projection; cell surface; integral to plasma membrane; endoplasmic reticulum; early endosome; integral to membrane; extracellular region; cytosol; lipid raft; cell soma; membrane; cytoplasm; plasma membrane; cytoplasmic vesicle; cell junction; nucleus; endosome; external side of plasma membrane Molecular Function: integrin binding; transferase activity; vascular endothelial growth factor receptor activity; protein binding; growth factor binding; protein-tyrosine kinase activity; transferase activity, transferring phosphorus-containing groups; nucleotide binding; kinase activity; transmembrane receptor protein tyrosine kinase activity; ATP binding; protein kinase activity Biological Process: positive regulation of positive chemotaxis; multicellular organismal development; cell maturation; positive regulation of vasodilation; positive regulation of long-term neuronal synaptic plasticity; protein amino acid phosphorylation; calcium ion homeostasis; regulation of cell shape; elevation of cytosolic calcium ion concentration; positive regulation of mesenchymal cell proliferation; negative regulation of neuron apoptosis; positive regulation of TOR signaling pathway; response to drug; regulation of endothelial cell proliferation; cell fate commitment; embryonic hemopoiesis; regulation of endothelial cell differentiation; 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; lymph vessel development; surfactant homeostasis; alveolus development; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of epithelial cell proliferation; positive regulation of nitric-oxide synthase biosynthetic process; negative regulation of apoptosis; peptidyl-tyrosine phosphorylation; protein amino acid autophosphorylation; positive regulation of calcium-mediated signaling; positive regulation of vascular endothelial growth factor receptor signaling pathway; positive regulation of focal adhesion formation; positive regulation of MAPKKK cascade; ovarian follicle development; positive regulation of cell proliferation; hemopoiesis; angiogenesis; vasculogenesis; cell differentiation; positive regulation of BMP signaling pathway; endothelial cell differentiation; cell migration; male gonad development; response to hypoxia; positive regulation of protein amino acid phosphorylation; vascular endothelial growth factor receptor signaling pathway; phosphorylation; neurite morphogenesis; positive regulation of cell migration; lung development
Research Articles on Kdr	**1.** The osteostatin domain of C-terminal PTHrP phosphorylates VEGFR2 through Src activation.
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