

KDR (phospho Y951) polyclonal antibody

Catalog # PAB12648

Size 100 ug

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of KDR.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding Y951 of human KDR.
Sequence	KDYVG
Host	Rabbit
Theoretical MW (kDa)	240
Reactivity	Human, Mouse
Specificity	This antibody recognizes ~240 KDa of human KDR at a phosphorylation site of Tyrosine 951. It does not recognize non-phosphorylated peptides.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (0.1-1 ug/mL) ELISA (0.01-0.1 ug/mL) Immunoprecipitation (2-5 ug/mL) Immunohistochemistry (2-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In TBS, pH 7.2 (BSA, 10% Proclin300)
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry

- Immunoprecipitation
- Enzyme-linked Immunoabsorbent Assay

Gene Info — KDR

Entrez GeneID [3791](#)

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

Publication Reference

- [VEGF receptor-2 Y951 signaling and a role for the adapter molecule TSA_d in tumor angiogenesis.](#)

Matsumoto T, Bohman S, Dixelius J, Berge T, Dimberg A, Magnusson P, Wang L, Wikner C, Qi JH, Wernstedt C, Wu J, Bruheim S, Mugishima H, Mukhopadhyay D, Spurkland A, Claesson-Welsh L.

The EMBO Journal 2005 Jul; 24(13):2342.

Application: IF, Human, Pig, HUVECs, PAE cells

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](#)