

Flk-1/VEGFR2 (phospho Tyr951) rabbit pAb**Cat#: orb768890 (Manual)**

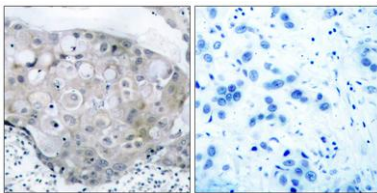
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Product Name	Flk-1/VEGFR2 (phospho Tyr951) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human VEGFR2 around the phosphorylation site of Tyr951. AA range:917-966
Specificity	Phospho-Flk-1 (Y951) Polyclonal Antibody detects endogenous levels of Flk-1 protein only when phosphorylated at Y951.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Vascular endothelial growth factor receptor 2
Gene Name	KDR
Cellular localization	Cell junction . Endoplasmic reticulum . Cell membrane . Localized with RAP1A at cell-cell junctions (By similarity). Colocalizes with ERN1 and XBP1 in the endoplasmic reticulum in endothelial cells in a vascular endothelial growth factor (VEGF)-dependent
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

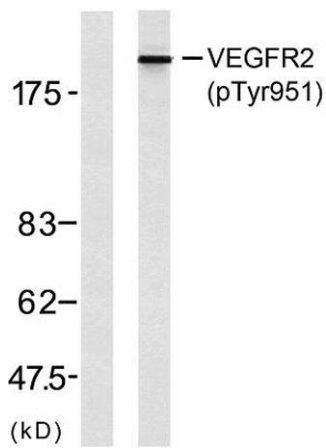
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	
Human Gene ID	3791
Human Swiss-Prot Number	P35968
Alternative Names	KDR; FLK1; VEGFR2; Vascular endothelial growth factor receptor 2; VEGFR-2; Fetal liver kinase 1; FLK-1; Kinase insert domain receptor; KDR; Protein-tyrosine kinase receptor flk-1; CD antigen CD309

Background

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],



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using VEGFR2 (Phospho-Tyr951) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from SK-OV3 cells, using VEGFR2 (Phospho-Tyr951) Antibody. The lane on the left is blocked with the phospho peptide.