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Product datasheet for TA354661

VEGF Receptor 2 (KDR) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the extracellular domain of human VEGFR-2 protein. This sequence is identical within human, mouse and dog.
Formulation:	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by Epitope Affinity Purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	~200 kDa and ~240 kDa
Gene Name:	kinase insert domain receptor
Database Link:	NP_002244 Entrez Gene 16542 MouseEntrez Gene 25589 RatEntrez Gene 3791 Human P35968
Background:	Vascular endothelial growth factor receptor-2 (VEGFR-2), also known as CD309 antigen, the earliest known marker for vascular endothelia cells, is essential in vasculogenesis and angiogenesis. Binding of the dimeric VEGF-A to the extracellular domains of two monomeric receptors induces dimerization and activation of tyrosine kinase at tyrosine residues Y951, Y1054 and Y1059 in the kinase domain serve as positive regulatory sites. Phosphorylation at Y951 of the kinase insert is related to the migration of endothelial cells for tumor vascularization and growth.
Synonyms:	CD309; FLK1; VEGFR; VEGFR2

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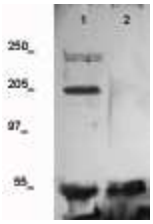
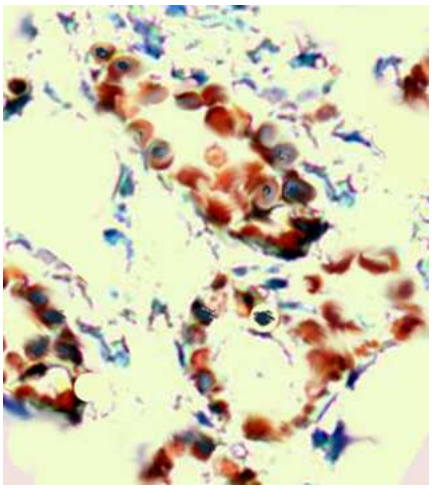
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion, VEGF signaling pathway

Product images:



WB: The whole cell lysate derived from human umbilical vein endothelial cell was stimulated by VEGF-A for 20 min, then immunoprecipitated by Rabbit anti-VEGFR2 followed by immuneprobing with Rabbit anti-VEGFR-2 at 1:500. The immunoreactive bands are observed around ~200kDa (non-phospho form) and ~ (Phospho-form) (lane 1). The lane 2 is a negative control.



IHC: Human breast tissue was stained with Rabbit anti-VEGFR-2 antibody, at 1:100 for 10min at RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.