Phospho-VEGFR2 Sampler Kit

E051031

Kits Includes	Cat.	Quantity	Application	Reactivity	Source
VEGFR2 (Phospho-Tyr1175) Antibody	E011084-1	50μg/50μl	IHC, IF	Human, Mouse, Rat	Rabbit
VEGFR2 (Phospho-Tyr1214) Antibody	E011085-1	50μg/50μl	IHC, WB, IF	Human, Mouse, Rat	Rabbit
VEGFR2 (Phospho-Tyr951) Antibody	E011086-1	50μg/50μl	IHC, WB, IF	Human, Mouse, Rat	Rabbit
VEGFR2 (Ab-1214) Antibody	E021078-1	50μg/50μl	IHC, IF	Human, Mouse, Rat	Rabbit
VEGFR2 (Ab-951) Antibody	E021079-1	50μg/50μl	IHC, WB, IF	Human, Mouse, Rat	Rabbit

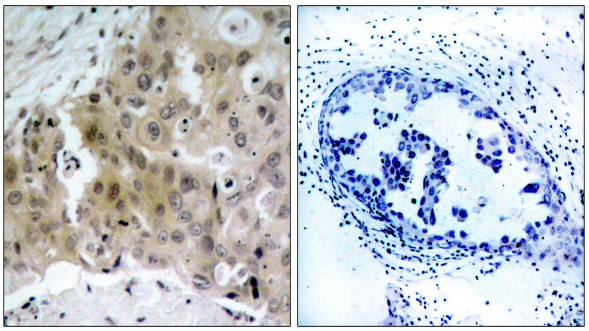
Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial 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. 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. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

Vascular endothelial growth factor is a signaling protein involved in the regulation of angiogenesis and vasculogenesis. VEGF binds to and activates a receptor tyrosine kinase, VEGFR. Three VEGFR isoforms have been identified in humans; VEGFR-1 (Flt-1), VEGFR-2 (KDR/Flk-1) and VEGFR-3 (Flt-4). VEGFR-2 mediates the majority of cellular responses to VEGF. VEGFR-1 is thought to modulate VEGFR-2 signaling or to act as a dummy/decoy receptor to sequester VEGF away from VEGFR-2.

VEGFR2 (Phospho-Tyr1175) Antibody

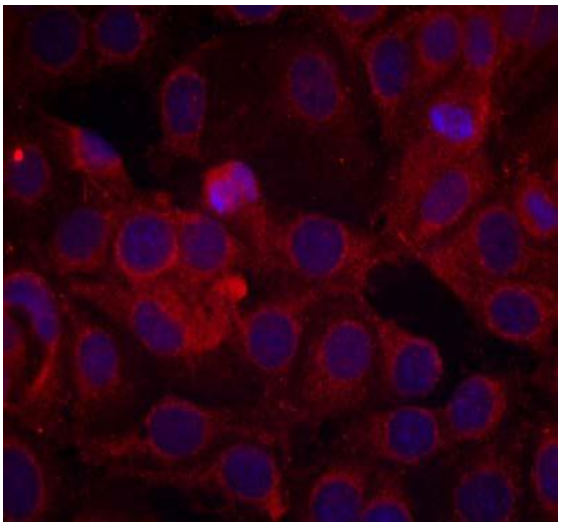
E011084

Catalog Number: E011084-1, E011084-2
Amount: 50μg/50μl, 100μg/100μl
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20°C/1 year
Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human VEGFR2 around the phosphorylation site of tyrosine 1175 (K-D-Y^P-I-V).
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatogramphy using non-phosphopeptide corresponding to the phosphorylation site.
Specificity/Sensitivity: VEGFR2 (phospho-Tyr1175) antibody detects endogenous levels of VEGFR2 only when phosphorylated at tyrosine 1175.
Reactivity: Human, Mouse, Rat
Applications: IHC: 1:50~1:100 IF:1:100~1:200
Swiss-Prot No. : P35968
References: Lamalice L, et al. (2004). Oncogene.23(2): 434-445.
Takahashi T, et al. (2001). EMBO J .20(11): 2768-2778.



P-Peptide - +

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using VEGFR2 (phospho-Tyr1175) antibody.

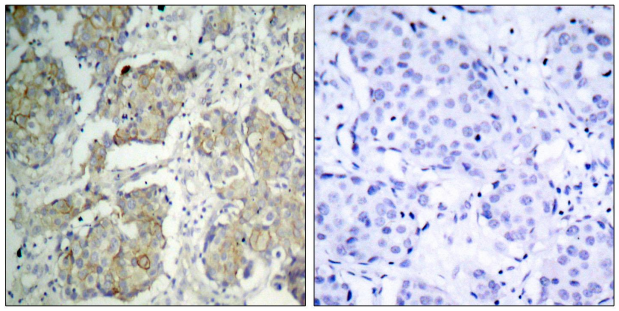


Immunofluorescence staining of methanol-fixed MCF7 cells using VEGFR2 (phospho-Tyr1175) antibody.

VEGFR2 (Phospho-Tyr1214) Antibody

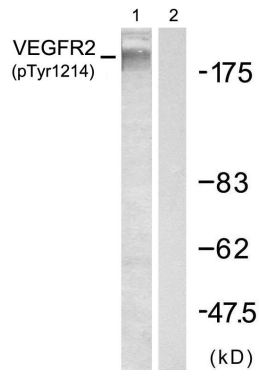
E011085

Catalog Number: E011085-1, E011085-2
Amount: 50μg/50μl, 100μg/100μl
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20℃/1 year
Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human VEGFR2 around the phosphorylation site of tyrosine 1214 (F-H-Y^P-D-N).
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatogramphy using non-phosphopeptide corresponding to the phosphorylation site.
Specificity/Sensitivity: VEGFR2 (phospho-Tyr1214) antibody detects endogenous levels of VEGFR2 only when phosphorylated at tyrosine 1214.
Reactivity: Human, Mouse, Rat
Applications: WB: 1:500~1:1000 IHC: 1:50~1:100 IF:1:100~1:200
Swiss-Prot No. : P35968
References: Lamalice L, et al. (2004). Oncogene. 23(2): 434-445.
Takahashi T, et al. (2001). EMBO J .20(11): 2768-2778.



P-Peptide - +

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using VEGFR2 (phospho-Tyr1214) antibody.



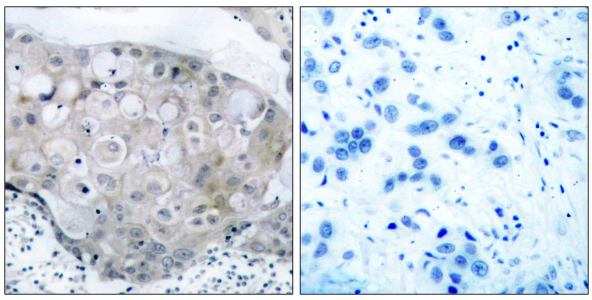
P-Peptide - +

Western blot analysis of extracts from SKOV3 cells using VEGFR2 (phospho-Tyr1214) antibody.

VEGFR2 (Phospho-Tyr951) Antibody

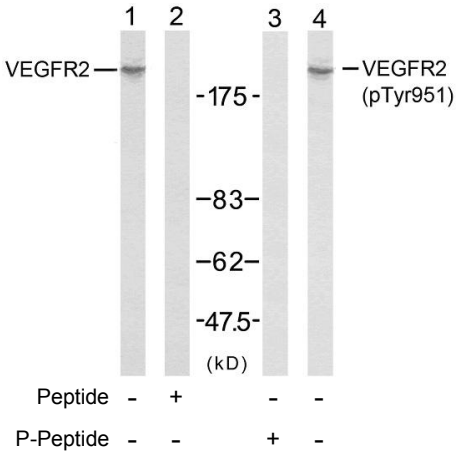
E011086

Catalog Number: E011086-1, E011086-2
Amount: 50μg/50μl, 100μg/100μl
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20℃/1 year
Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human VEGFR2 around the phosphorylation site of tyrosine 951 (K-D-Y^{P}-V-G).
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatogramphy using non-phosphopeptide corresponding to the phosphorylation site.
Specificity/Sensitivity: VEGFR2 (phospho-Tyr951) antibody detects endogenous levels of VEGFR2 only when phosphorylated at tyrosine 951.
Reactivity: Human, Mouse, Rat
Applications: WB: 1:500~1:1000 IHC: 1:50~1:100 IF:1:100~1:200
Swiss-Prot No. : P35968
References: Zeng H, et al. (2001) J Biol Chem. 276(35): 32714-32719.
Dougher M, et al. (1999) Oncogene. 18(8): 1619-1627.



P-Peptide - +

Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue using VEGFR2 (phospho-Tyr951) antibody.

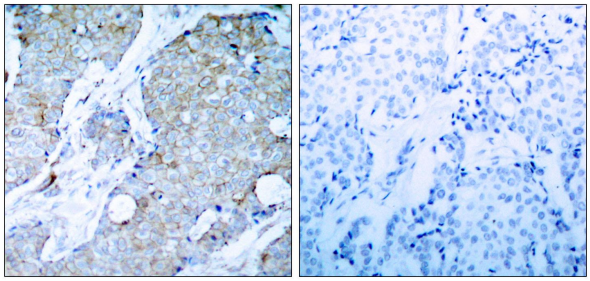


Western blot analysis of extracts from SK-OV3 cells using VEGFR2 antibody and VEGFR2 (phospho-Tyr951) antibody.

VEGFR2 (Ab-1214) Antibody

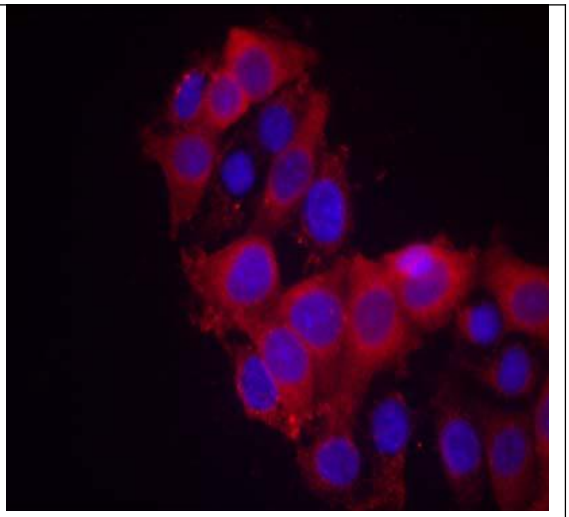
E021078

Catalog Number: E021078-1, E021078-2
Amount: 50μg/50μl, 100μg/100μl
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20℃/1 year
Immunogen: The antiserum was produced against synthesized non-phosphopeptide derived from human VEGFR2 around the phosphorylation site of tyrosine 1214 (F-H-Y^P-D-N)..
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity/Sensitivity: VEGFR2 (Ab-1214) antibody detects endogenous levels of total VEGFR2 protein.
Reactivity: Human, Mouse, Rat
Applications: IHC: 1:50~1:100 IF:1:100~1:200
Swiss-Prot No. : P35968
References: Lamalice L, et al. (2004). Oncogene.23(2): 434-445.
Takahashi T, et al. (2001). EMBO J .20(11): 2768-2778.



Peptide - +

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using VEGFR2 antibody.

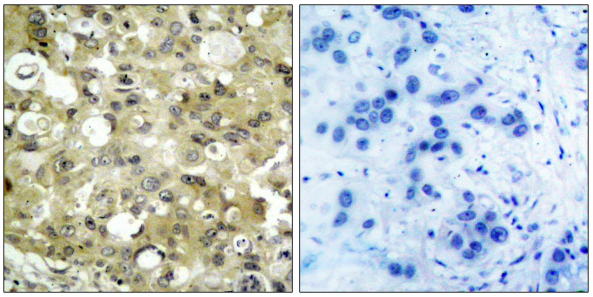


Immunofluorescence staining of methanol-fixed MCF7 cells using VEGFR2 antibody.

VEGFR2 (Ab-951) Antibody

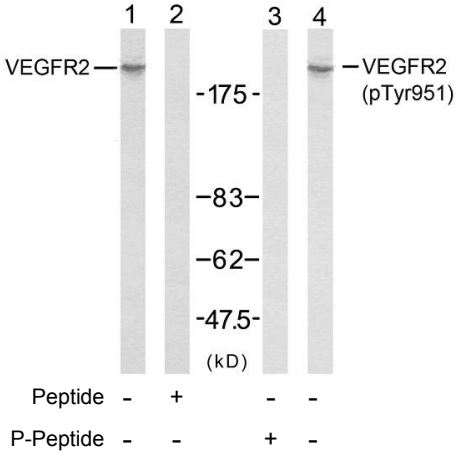
E021079

Catalog Number: E021079-1, E021079-2
Amount: 50μg/50μl, 100μg/100μl
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20℃/1 year
Immunogen: The antiserum was produced against synthesized non-phosphopeptide derived from human VEGFR2 around the phosphorylation site of tyrosine 951 (K-D-Y^{P}-V-G)..
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity/Sensitivity: VEGFR2 (Ab-951) antibody detects endogenous levels of total VEGFR2 protein.
Reactivity: Human, Mouse, Rat
Applications: WB: 1:500~1:1000 IHC: 1:50~1:100 IF:1:100~1:200
Swiss-Prot No. : P35968
References: Zeng H, et al. (2001) J Biol Chem. 276(35): 32714-32719.
Dougher M, et al. (1999) Oncogene. 18(8): 1619-1627.



Peptide - +

Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue using VEGFR2 antibody.



Western blot analysis of extracts from SK-OV3 cells using VEGFR2 antibody and VEGFR2 (phospho-Tyr951) antibody.