



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.

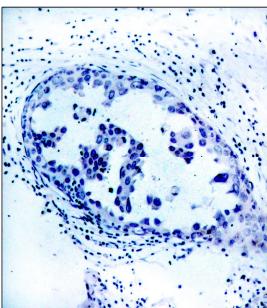
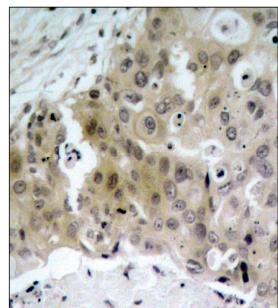


VEGFR2 (Phospho-Tyr1175) Antibody

E011084

Catalog Number: E011084-1, E011084-2**Amount:** 50 μ g/50 μ l, 100 μ g/100 μ l**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), 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 chromatography 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.

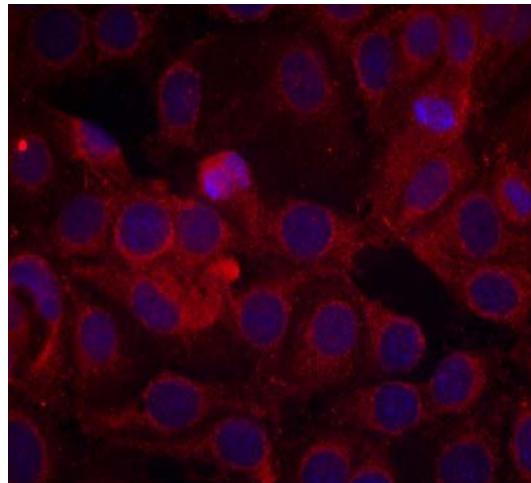


P-Peptide

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Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using VEGFR2 (phospho-Tyr1175) antibody (E011084).



Immunofluorescence staining of methanol-fixed MCF7 cells using VEGFR2 (phospho-Tyr1175) antibody (E011084, Red).

Enogene

VEGFR2 (Phospho-Tyr1214) Antibody

E011085

Catalog Number: E011085-1, E011085-2

Amount: 50 μ g/50 μ l, 100 μ g/100 μ l

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 chromatography 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.

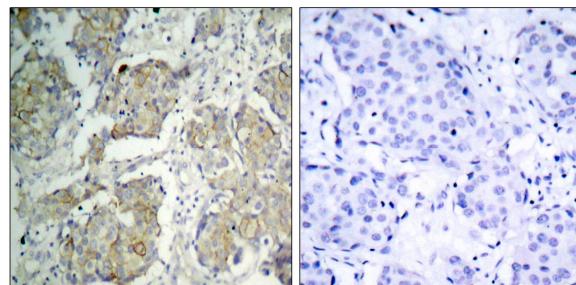
Reactivity: Human, Mouse, Rat

Applications: WB: 1:500~1:1000 IHC: 1:50~1:100 IF: 1:100~1:200

Swiss-Prot No.: P35968

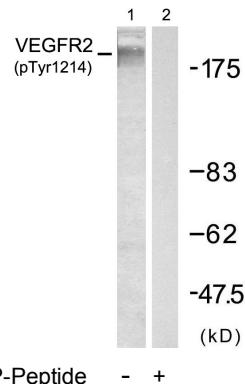
References: Lamalice L, et al. (2004). Oncogene. 23(2): 434-445.

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 (E011085).



Western blot analysis of extracts from SKOV3 cells using VEGFR2 (phospho-Tyr1214) antibody (E011085).

Enogene

VEGFR2 (Phospho-Tyr951) Antibody

E011086

Catalog Number: E011086-1, E011086-2

Amount: 50 μ g/50 μ l, 100 μ g/100 μ l

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), 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 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 chromatography 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.

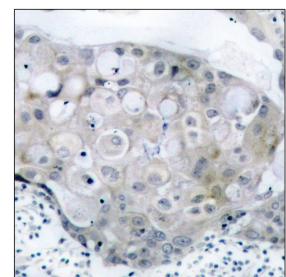
Reactivity: Human, Mouse, Rat

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.

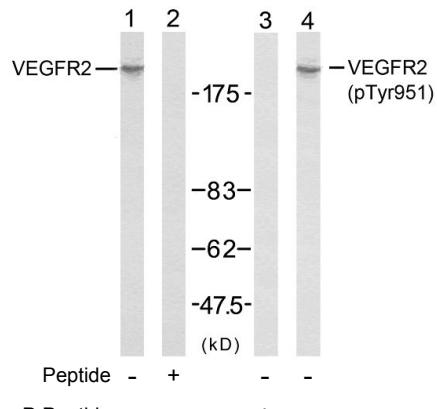


P-Peptide

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Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using VEGFR2 (phospho-Tyr951) antibody (E011086).



Western blot analysis of extracts from SK-OV3 cells using VEGFR2 (Ab-951) antibody (E021079, Line 1 and 2) and VEGFR2 (phospho-Tyr951) antibody (E011086, Line 3 and 4).



VEGFR2 (Ab-1214) Antibody

Catalog Number: E021078-1, E021078-2

Amount: 50 μ g/50 μ l, 100 μ g/100 μ l

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 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.

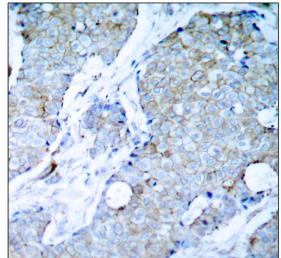
Reactivity: Human, Mouse, Rat

Applications: IHC: 1:50~1:100 IF:1:100~1:200

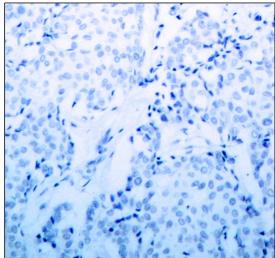
Swiss-Prot No.: P35968

References: Iamalice I et al (2004) Oncogene 23(2): 434-445

Takahashi T. et al. (2001) *EMBO J.* 20(11): 2768-2778

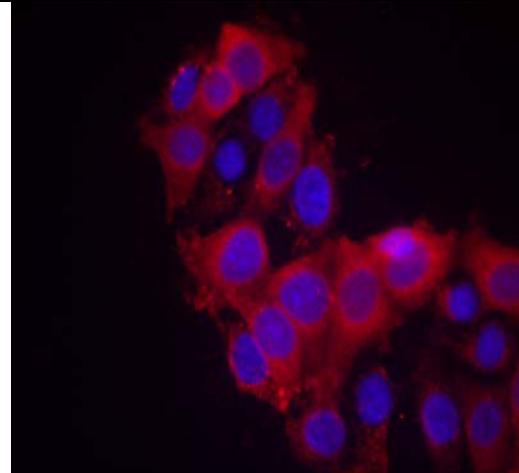


Peptide -



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Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using VEGFR2 (Ab-1214) antibody (E021078).



Immunofluorescence staining of methanol-fixed MCF7 cells using VEGFR2 (Ab-1214) antibody (E021078, Red).

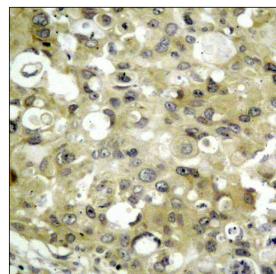
Enogene

VEGFR2 (Ab-951) Antibody

E021079

Catalog Number: E021079-1, E021079-2**Amount:** 50 μ g/50 μ l, 100 μ g/100 μ l**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), 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 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.

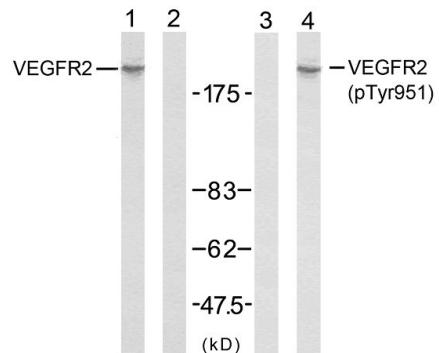


Peptide

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Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using VEGFR2 (Ab-951) antibody (E021079).



Western blot analysis of extracts from SK-OV3 cells using VEGFR2 (Ab-951) antibody (E021079, Line 1 and 2) and VEGFR2 (phospho-Tyr951) antibody (E011086, Line 3 and 4).