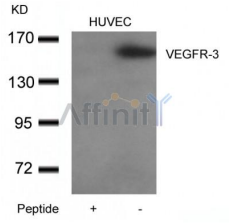
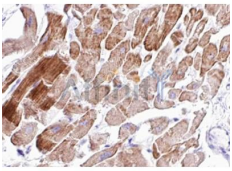
VEGFR3 Ab

Cat.#: AF4201	Concn.: 1mg/ml	Mol.Wt.: 160kd
Size: 50ul,100ul,200ul	Source: Rabbit	Clonality: Polyclonal

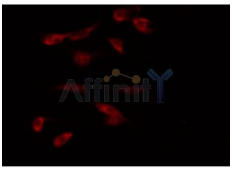
Application:	WB 1:500-1:1000 IHC 1:50-1:200 IF 1:200
Reactivity:	Human,Mouse
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Specificity:	The Ab detects endogenous level of total VEGFR-3 protein.
Immunogen:	Peptide sequence around aa.1279~1283 (L-A-S-E-E) derived from Human VEGFR-3.
Uniprot:	P35916
Description:	Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFC and VEGFD, and plays an essential role in adult lymphangiogenesis and in the development of the vascular network and the cardiovascular system during embryonic development. Promotes proliferation, survival and migration of endothelial cells, and regulates angiogenic sprouting. Signaling by activated FLT4 leads to enhanced production of VEGFC
Subcellular Location:	Membrane.
Tissue Specificity:	Detected in endothelial cells (at protein level). Widely expressed. Detected in fetal spleen, lung and brain. Detected in adult liver, muscle, thymus, placenta, lung, testis, ovary, prostate, heart, and kidney.
Similarity:	The first and second Ig-like C2-type (immunoglobulin-like) domains are sufficient for VEGFC binding (PubMed:23878260). The fourth and fifth Ig-like C2-type domains are sufficient for homodimerization (PubMed:23878260). The fifth and seventh Ig-like C2-type domains are required for autophosphorylation and further activation (PubMed:23878260).Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.
Storage Condition and Buffer:	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and glycerol.



Western blot analysis of extracts from HUVEC cells using VEGFR-3 Ab (right) and the same Ab preincubated with blocking peptide



AF4201 at 1/100 staining human Heart muscle sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF4201 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.