FLT4 Antibody

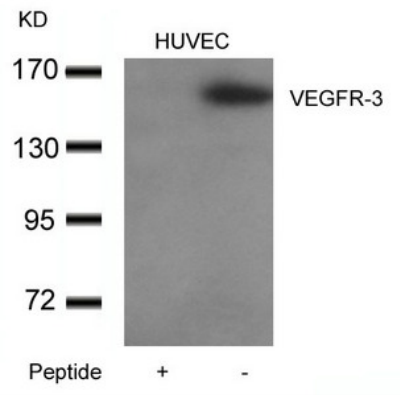
Product Code	CSB-PA277523
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P35916
Immunogen	Peptide sequence around aa.1279~1283 (L-A-S-E-E) derived from Human VEGFR-3.
Raised In	Rabbit
Species Reactivity	Human
Specificity	The antibody detects endogenous level of total VEGFR-3 protein.
Tested Applications	ELISA,WB,IHC,IF;WB:1:500-1:3000,IHC:1:50-1:200,IF:1:100-1:200
Relevance	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, and to a lesser degree VEGFA, thereby creating a positive feedback loop that enhances FLT4 signaling. Modulates KDR signaling by forming heterodimers. The secreted isoform 3 may function as a decoy receptor for VEGFC and/or VEGFD and play an important role as a negative regulator of VEGFC-mediated lymphangiogenesis and angiogenesis. Binding of vascular growth factors to isoform 1 or isoform 2 leads to the activation of several signaling cascades; isoform 2 seems to be less efficient in signal transduction, because it has a truncated C-terminus and therefore lacks several phosphorylation sites. Mediates activation of the MAPK1/ERK2, MAPK3/ERK1 signaling pathway, of MAPK8 and the JUN signaling pathway, and of the AKT1 signaling pathway. Phosphorylates SHC1. Mediates phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase. Promotes phosphorylation of MAPK8 at 'Thr-183' and 'Tyr-185', and of AKT1 at 'Ser-473'.
Form	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-

Wang J.F., Zhang X., Groopman J.E.J. Biol. Chem. 279:27088-27097(2004)

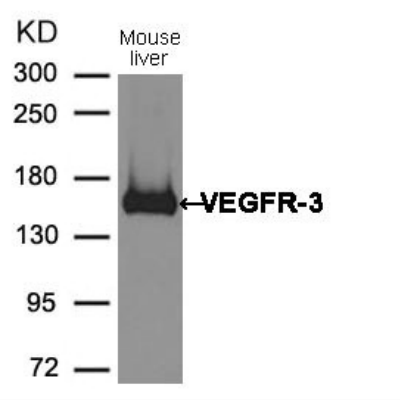
Matsuura M., Onimaru M., Yonemitsu Y., Suzuki H., Nakano T., Ishibashi H., Shirasuna K., Sueishi K.Am. J. Pathol. 175:1709-1721(2009)
Galvagni F., Pennacchini S., Salameh A., Rocchigiani M., Neri F., Orlandini M., Petraglia F., Gotta S., Sardone G.L., Matteucci G., Terstappen G.C., Oliviero S. Circ. Res. 106:1839-1848(2010)

	specific peptide.
Clonality	Polyclonal
Alias	PCL; FLT4; FLT41; LMPH1A;
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	FLT4

Image



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



Western blot analysis of extracts from Mouse liver tissue using VEGFR-3 Antibody.