

AP55778PU-S**Polyclonal Antibody to VEGFR-1 / Flt-1 pTyr1048 - Aff - Purified**

Alternate names:	FLT, FLT1, FRT, Fms-like tyrosine kinase 1, Tyrosine-protein kinase FRT, Tyrosine-protein kinase receptor FLT, VEGF Receptor 1, VEGFR1, Vascular endothelial growth factor receptor 1, Vascular permeability factor receptor
Quantity:	50 µg
Concentration:	1.0 mg/ml
Background:	Receptor for VEGF, VEGFB and PGF. 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. Isoform SFlt1 may have an inhibitory role in angiogenesis.
Uniprot ID:	P17948
NCBI:	NP_001153392.1
GeneID:	2321
Host:	Rabbit
Immunogen:	Peptide sequence around phosphorylation site of tyrosine 1048 (D-I-Y(p)-K-N) derived from Human VEGFR1 (KLH-conjugated)
Format:	State: Liquid Ig fraction Purification: Affinity chromatography using epitope-specific peptide Buffer System: Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Applications:	Immunohistochemistry on paraffin sections: 1:50~1:100 . Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	150 kDa
Specificity:	The antibody detects endogenous levels of VEGFR1 only when phosphorylated at tyrosine 1048.
Species Reactivity:	Tested: Human, Mouse, Rat
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Shibuya M, Yamaguchi S, Yamane A, Ikeda T, Tojo A, Matsushime H, et al. Nucleotide sequence and expression of a novel human receptor-type tyrosine kinase gene (flt) closely related to the fms family. <i>Oncogene</i> . 1990 Apr;5(4):519-24. PubMed PMID: 2158038. 2. Kendall RL, Thomas KA. Inhibition of vascular endothelial cell growth factor activity by an endogenously encoded soluble receptor. <i>Proc Natl Acad Sci U S A</i> . 1993 Nov 15;90(22):10705-9. PubMed PMID: 8248162. 3. Gerhard DS, Wagner L, Feingold EA, Shenmen CM, Grouse LH, Schuler G, et al. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian

Gene Collection (MGC). Genome Res. 2004 Oct;14(10B):2121-7. PubMed PMID: 15489334.

Pictures:

Immunohistochemical analysis of paraffin-embedded human brain tissue using VEGFR1 (Phospho-Tyr1048) antibody AP55778PU-N (left) or the same antibody preincubated with blocking peptide (right).

