

AP55933PU-S**Polyclonal Antibody to VEGFR-1 / Flt-1 pTyr1213 - 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 1213(V-R-Y(p)-V-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:	Western blot: 1:500~1:1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	90 kDa
Specificity:	The antibody detects endogenous level of VEGFR1 only when phosphorylated at tyrosine 1213.
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. Raghu H, Nalla AK, Gondi CS, Gujrati M, Dinh DH, Rao JS. uPA and uPAR shRNA inhibit angiogenesis via enhanced secretion of SVEGFR1 independent of GM-CSF but dependent on TIMP-1 in endothelial and glioblastoma cells. <i>Mol Oncol.</i> 2012 Feb;6(1):33-47. doi: 10.1016/j.molonc.2011.11.008. Epub 2011 Nov 30. PubMed PMID: 22177802. 2. Ito N, Huang K, Claesson-Welsh L. Signal transduction by VEGF receptor-1 wild type and mutant proteins. <i>Cell Signal.</i> 2001 Nov;13(11):849-54. PubMed PMID: 11583921. 3. Ito N, Wernstedt C, Engström U, Claesson-Welsh L. Identification of vascular endothelial growth factor receptor-1 tyrosine phosphorylation sites and binding of

SH2 domain-containing molecules. J Biol Chem. 1998 Sep 4;273(36):23410-8. PubMed PMID: 9722576.

Pictures:

Western blot analysis of extracts from HeLa cells treated with UV using Phospho-VEGFR1 (Tyr1213) antibody AP55933PU-N. The lane on the right is treated with the antigen-specific peptide.

