

## AP55933PU-N

## Polyclonal Antibody to VEGFR-1 / Flt-1 pTyr1213 - Aff - Purified

<b>Alternate names:</b>	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
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">P17948</a>
<b>NCBI:</b>	<a href="#">NP_001153392.1</a>
<b>GeneID:</b>	<a href="#">2321</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Peptide sequence around phosphorylation site of Tyrosine 1213(V-R-Y(p)-V-N) derived from Human VEGFR1 (KLH-conjugated)
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Affinity chromatography using epitope-specific peptide <b>Buffer System:</b> Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
<b>Applications:</b>	<b>Western blot:</b> 1:500~1:1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Molecular Weight:</b>	90 kDa
<b>Specificity:</b>	The antibody detects endogenous level of VEGFR1 only when phosphorylated at tyrosine 1213.
<b>Species Reactivity:</b>	<b>Tested:</b> Human, Mouse, Rat
<b>Storage:</b>	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	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.

