

## Product datasheet for **AP02619PU-N**

### VEGF Receptor 2 (KDR) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000. Incubate membrane with diluted antibody in 5% nonfat milk, 1xTBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight. <b>Immunofluorescence:</b> 1/100-1/200. <b>Immunohistochemistry on Paraffin Embedded Tissue:</b> 1/50-1/100.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide sequence around amino acids 949~953 (K-D-Y-V-G) derived from Human VEGFR2.
Specificity:	The antibody detects endogenous levels of total VEGFR2 protein.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, containing 150 mM NaCl, 0.02% Sodium Azide and 50% glycerol State: Aff - Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	kinase insert domain receptor
Database Link:	<a href="#">Entrez Gene 3791 Human P35968</a>



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**Background:**

VEGF receptor 2 is a member of a receptor tyrosine kinase family whose activation plays an essential role in a large number of biological processes such as embryonic development, wound healing, cell proliferation, migration and differentiation. Like other growth factor receptors, upon ligand binding VEGF receptor 2 dimerises and is autophosphorylated on multiple tyrosine residues. These sites can be involved in the regulation of kinase activity or serve as binding sites for SH2 and phosphotyrosine binding containing signalling proteins. Phosphorylation of Tyrosines 1054 and 1059 in the activation loop is required for activation of VEGF receptor 2 and its intrinsic tyrosine kinase activity. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

**Synonyms:**

VEGFR2, FLK1, KDR, VEGF Receptor 2

**Note:**

**Molecular Weight:** 230 kDa

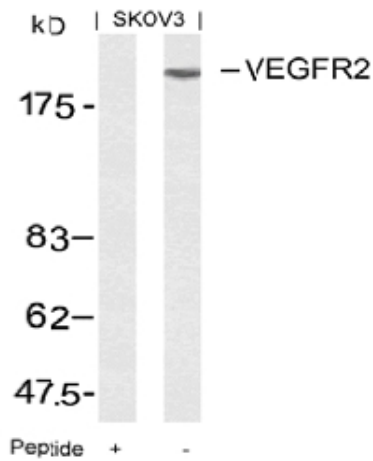
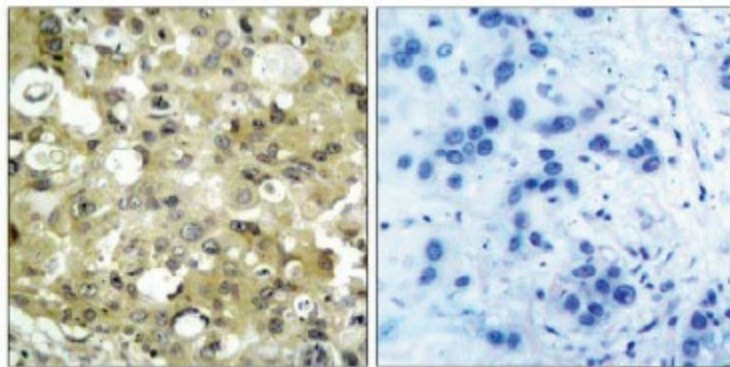
**Product images:**


Figure 2. Western blot analysis of extracts from SKOV3 cells using VEGFR2 antibody and the same antibody preincubated with blocking peptide.



Peptide - +

Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using VEGFR2 antibody (Left) and the same antibody preincubated with blocking peptide (Right).

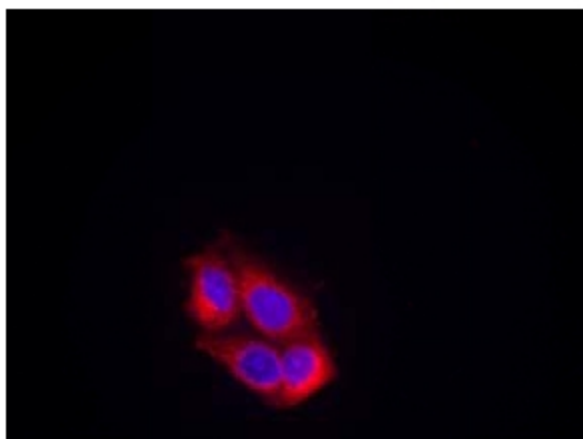


Figure 3. Immunofluorescence staining of methanol-fixed MCF cells using VEGFR2 antibody.