

**Flk-1/VEGFR2 (phospho Tyr1059) rabbit pAb****Cat#: orb768891 (Manual)**

For research use only. Not intended for diagnostic use.

|                                 |  |
|---------------------------------|--|
| <b>Product Name</b>             | Flk-1/VEGFR2 (phospho Tyr1059) rabbit pAb  |
| <b>Host species</b>             | Rabbit   |
| <b>Applications</b>             | WB;ELISA   |
| <b>Species Cross-Reactivity</b> | Human;Mouse;Rat  |
| <b>Recommended dilutions</b>    | Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.   |
| <b>Immunogen</b>                | The antiserum was produced against synthesized peptide derived from human VEGFR2 around the phosphorylation site of Tyr1059. AA range:1025-1074  |
| <b>Specificity</b>              | Phospho-Flk-1 (Y1059) Polyclonal Antibody detects endogenous levels of Flk-1 protein only when phosphorylated at Y1059.  |
| <b>Formulation</b>              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..   |
| <b>Storage</b>                  | Store at -20°C. Avoid repeated freeze-thaw cycles.   |
| <b>Protein Name</b>             | Vascular endothelial growth factor receptor 2  |
| <b>Gene Name</b>                | KDR  |
| <b>Cellular localization</b>    | Cell junction . Endoplasmic reticulum . Cell membrane . Localized with RAP1A at cell-cell junctions (By similarity). Colocalizes with ERN1 and XBP1 in the endoplasmic reticulum in endothelial cells in a vascular endothelial growth factor (VEGF)-dependent manner (PubMed:23529610). .; [Isoform 1]: Cell membrane; Single-pass type I membrane protein. Cytoplasm. Nucleus. Cytoplasmic vesicle. Early endosome. Detected on caveolae-enriched lipid rafts at the cell surface. Is recycled from the plasma membrane to endosomes and back again. Phosphorylation triggered by VEGFA binding promotes internalization and subsequent degradation. VEGFA binding triggers internalization and translocation to the nucleus.; |

[Isoform 2]: Secreted .; [Isoform 3]: Secreted.

**Purification**

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Clonality**

Polyclonal

**Concentration**

1 mg/ml

**Observed band**

170kD

**Human Gene ID**

3791

**Human Swiss-Prot Number**

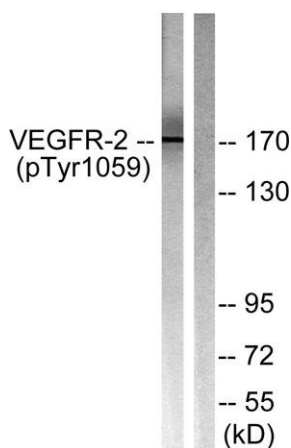
P35968

**Alternative Names**

KDR; FLK1; VEGFR2; Vascular endothelial growth factor receptor 2; VEGFR-2; Fetal liver kinase 1; FLK-1; Kinase insert domain receptor; KDR; Protein-tyrosine kinase receptor flk-1; CD antigen CD309

**Background**

Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq, May 2009],



**Western blot analysis of lysates from HepG2 cells treated with Na3VO4 0.3nM 40', using VEGFR2 (Phospho-Tyr1059) Antibody. The lane on the right is blocked with the phospho peptide.**