



## **Rabbit anti VEGFR-2 (pY951) (CD309) Polyclonal Antibody**

**Alternative Name(s):** vascular endothelial growth factor receptor 2; VEGFR2

### **Order Information**

- **Description:** VEGFR-2 (pY951) (CD309)
- **Catalogue:** 602-080
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt

### **ANTIGEN PREPARATION**

A synthetic peptide corresponding to the epitope –KDYVG– at a phosphorylation site at tyrosine 951 of human VEGFR-2 protein. This sequence is identical within human, mouse and dog.

### **BACKGROUND**

Vascular endothelial growth factor receptor-2 (VEGFR-2), also known as CD309 antigen, the earliest known marker for vascular endothelia cells, is essential in vasculogenesis and angiogenesis. Binding of the dimeric VEGF-A to the extracellular domains of two monomeric receptors induces dimerization and activation of tyrosine kinase at tyrosine residues Y951, Y1054 and Y1059 in the kinase domain serve as positive regulatory sites. Phosphorylation at Y951 of the kinase insert is related to the migration of endothelial cells for tumor vascularization and growth.

### **PURIFICATION**

The Rabbit IgG is purified by site-modified Epitope Affinity Purification.

### **FORMULATION**

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes ~240 kDa of human VEGFR-2 protein at a phosphorylation site of Tyrosine 951. It does not recognize non-phosphorylated peptides. This antibody also reacts with mouse. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 240.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

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## DATA ATTACHMENTS



Western Blot: The whole cell lysate derived from human umbilical vein endothelial cell was stimulated by VEGF-A for 20 min, then immunoprecipitated by Rabbit anti-VEGFR-2 (Cat#602-100) followed by immunoprobng with Rabbit anti phospho-VEGFR-2 (pY951) (Cat#602-080) at 1:500. An immunoreactive band is observed around ~240kDa (lane 1). The lane 2 is a negative control.

## REFERENCES

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