

# AbboMax, Inc

Innovation at Work

## Rabbit anti-VEGFR-2 Polyclonal Antibody

**Alternate Names:** Vascular endothelial growth factor receptor 2 (VEGFR-2); KDR/ Flk-1; CD309 antigen

### Order Information

Description: Rabbit anti VEGFR-2  
Catalogue#: 602-100  
Lot#: See the label  
Size: 100 ug/200 ul  
Host: Rabbit  
Clone: N/A  
Application: ELISA, WB, IHC  
Reactivity: Hu, Ms, Dg

### ANTIGEN PREPARATION

A synthetic peptide corresponding to the extracellular domain 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 Epitope Affinity Purification.

### SPECIFICITY

This antibody recognizes ~200 and ~240 kDa of human VEGFR-2 protein. This antibody also reacts with mouse. The other species are not tested.

### FORMULATION

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

### STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

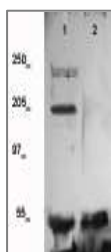
### APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	2-5 µg/ml
Flow cytometry	Not tested

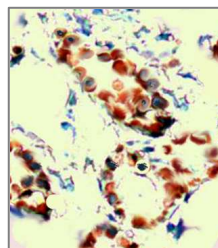
<b>MOLECULAR WEIGHT:</b>	~200kDa and ~240kDa
<b>POSITIVE CONTROL:</b>	HUVEC
<b>CELLULAR LOCATION:</b>	Cytoplasmic

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

### DATA ATTACHMENTS



**WB:** 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 immunoprob- ing with Rabbit anti-VEGFR-2 (Cat#602-100) at 1:500. The immunoreactive bands are observed around ~200kDa (non-phospho form) and ~240 kDa (Phospho-form) (lane 1). The lane 2 is a negative control.



**IHC:** Human breast Ca. tissue was stained with Rabbit anti-VEGFR-2 antibody, (Cat# 602-100) at 1:100 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

### REFERENCES:

Taro Matsumoto, et al. VEGF receptor-2 Y951 signaling and a role for the adapter molecule TSA in tumor angiogenesis. *The EMBO Journal* (2005) 24, 2342-2353.

**FOR RESEARCH USE ONLY.**

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