

AbboMax, Inc

Innovation at Work

Rabbit anti Phospho-VEGFR-2 (pTyr⁹⁵¹)

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

Order Information

Description: Rabbit anti VEGFR-2 (pY951)
Catalogue#: 602-080
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 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-specific 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 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.

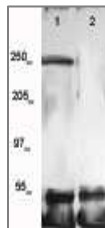
APPLICATIONS/SUGGESTED WORKING DILUTIONS

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

MOLECULAR WEIGHT:	~240 kDa
POSITIVE CONTROL:	VEGF-A stimulated HUVEC cells
CELLULAR LOCATION:	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 phosphor-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:

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.

AbboMax, Inc 1161 Ringwood Ct. Suite 100, San Jose, California 95131, USA
1 408-321-9898 (Tel). 1 408-321-9896 (Fax). 1-866-628-9898 www.abbomax.com info@abbomax.com