



Anti-Human VEGFR-2 [KDR], Agonistic (#3D09)

20180409BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	mV1001r-m
Size:	200 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with purified human VEGFR2 N-terminal fragment (AA N30-200).

Target Background

Synonyms (Target):	vascular endothelial growth factor receptor-2 ; KDR; FLK1; CD309; VEGF receptor 2; kinase insert domain protein receptor
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VEGF R1 (Flt-1), VEGF R2 (KDR/Flk-1), and VEGF R3 (Flt-4) belong to the class III subfamily of receptor tyrosine kinases (RTKs). All three receptors contain seven immunoglobulin-like repeats in their extracellular domain and kinase insert domains in their intracellular region. They are best known for regulating VEGF family-mediated vasculogenesis, angiogenesis, and lymphangiogenesis. They are also mediators of neurotrophic activity and regulators of hematopoietic development. Human VEGF R2 is thought to be the primary inducer of VEGF-mediated blood vessel growth, while VEGF R3 plays a significant role in VEGF-C and VEGF-D-mediated lymphangiogenesis. The antibody will bind near the ligand binding site of the receptor and has agonistic activity.

Database References Target

Protein RefSeq:	NP_002244.1
Uniprot ID:	P35968
mRNA RefSeq:	NM_002253.2

Product Specifications

Host	Mouse
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#3D09)
Isotype	IgG1
Purification	Protein G chromatography
Antigen	hVEGFR2 N-terminal fragment (N30-200)
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 400 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody recognizes human VEGFR-2 in western blot and immunoprecipitation assays. It shows no cross-reactivity with human VEGFR-1. This antibody leads to VEGFR2 activation.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

The antibody can be used within the following applications:

WB, Stimulation of KDR phosphorylation, IP

Recommended usage:

VEGFR2 activation: This antibody can induce hVEGFR2 phosphorylation in HUVECs at > 5.0 µg/mL.

WB: Yes.

Immunoprecipitation: Yes

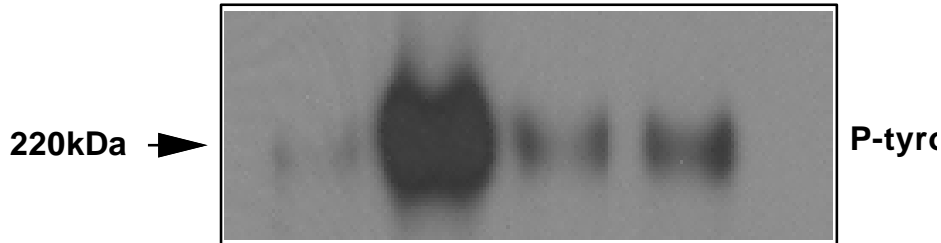
NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Application/Handling

mV1001.3m-h (µg/ml)	-	-	5	25
VEGF (20ng/ml)	-	+	-	-



HUVECs were stimulated with 5, 25 µg/ml mV1001.3m-h or hVEGF (20ng/ml) for 30min. Phospho-VEGFR2 was detected with IP-Western for P-Tyrosine