bs-3467R **[Primary Antibody]**

phospho-VEGF receptor 2 (Tyr1059) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3791 **SWISS:** P35968

Target: VEGF receptor 2 (Tyr1059)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human VEGF receptor 2 around the phosphorylation site of Tyr1059: PD(p-Y)VR.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].

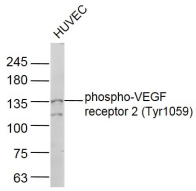
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2ug/test)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, Cow, Chicken, Dog, Horse)

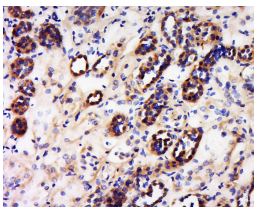
Predicted MW.: 147 kDa

Subcellular Location: Secreted ,Cell membrane ,Cytoplasm ,Nucleus

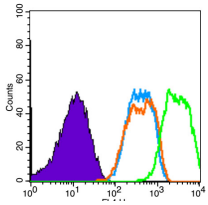
VALIDATION IMAGES



Sample: HUVEC (Hu)Lysate at 30 ug Primary: Anti-phospho-VEGF receptor 2 (Tyr1059) (bs-3467R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 147 kD Observed band size: 147 kD



Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-VEGFR Polyclonal Antibody, Unconjugated(bs-3467R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:Huvec. Primary Antibody (green line): Rabbit Anti-phospho-VEGF receptor 2 (Tyr1059) antibody (bs-3467R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=5.19]** Zhu, Huaisen. et al. Ginsenoside Rg1 regulates thiram-induced chondrocytes' apoptosis and angiogenesis in

broiler chickens. ENVIRON SCI POLLUT R. 2022 Dec;:1-15 WB ;Chicken. 36508105

- **[IF=2.886]** Yang Q et al. Anlotinib Suppresses Colorectal Cancer Proliferation and Angiogenesis via Inhibition of AKT/ERK Signaling Cascade. Cancer Manag Res . 2020 Jun 24;12:4937-4948. WB ;Mouse. 32606981