bs-0565R **[Primary Antibody]**

VEGFR2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3791 **SWISS:** P35968

Target: VEGFR2

Immunogen: KLH conjugated synthetic peptide derived from human VEGFR2: 1001-1100/1356. < Cytoplasmic >

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].

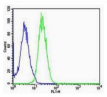
Applications: **Flow-Cyt** (1µg/Test)

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

Predicted MW.: 147 kDa

Subcellular Location: Secreted ,Cell membrane ,Cytoplasm ,Nucleus

VALIDATION IMAGES



Tissue/cell: Human esophageal cancer tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-VEGFR2 Polyclonal Antibody, Unconjugated(bs-0565R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated (bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

SELECTED CITATIONS

- **[IF=6.038]** Liao, Xiaodan. et al. Fullerene nanoparticles for the treatment of ulcerative colitis. 2021 Nov 02 WB ;Rat. 34735681
- **[IF=4.6]** Yanaga Hiroko. et al. Successful fat-only whole breast reconstruction using cultured mature adipocytes and conditioned medium containing MCP-1. SCI REP-UK. 2023 Nov;13(1):1-14 IHC ;Human. 37923755

- **[IF=4.15]** Wang, Nan, et al. "Vascular endothelial growth factor stimulates endothelial differentiation from mesenchymal stem cells via Rho/myocardin-related transcription factor-A signaling pathway." The International Journal of Biochemistry & Cell Biology (2013). WB ;="Human, Rat". 23624342
- **[IF=3.73]** Gao, Jin-Hang, et al. "Celecoxib Ameliorates Portal Hypertension of the Cirrhotic Rats through the Dual Inhibitory Effects on the Intrahepatic Fibrosis and Angiogenesis." PLOS ONE 8.7 (2013): e69309. WB,IHC ;="Rat". 23922700
- **[IF=3.923]** Li H et al. siRNA‐mediated silencing of PAI‐1 gene acts as a promoter over the recanalization of endothelial progenitor cells in rats with venous thrombosis. J Cell Physiol. 2019 Apr 14. ICC ;Rat. 30982977