

**bs-4572R****[ Primary Antibody ]****VEGFA Rabbit pAb****BioSS**  
**ANTIBODIES**

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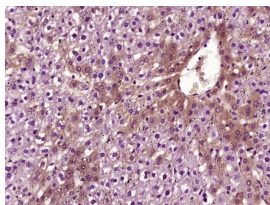
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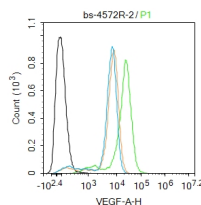
400-901-9800

**DATASHEET**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 7422 <b>Target:</b> VEGFA <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human VEGF-A: 141-180/191. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 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. <b>Background:</b> Vascular endothelial growth factor (VEGF), originally known as vascular permeability factor (VPF), is a signal protein produced by cells that stimulates the formation of blood vessels. To be specific, VEGF is a sub-family of growth factors, the platelet-derived growth factor family of cystine-knot growth factors. They are important signaling proteins involved in both vasculogenesis (the de novo formation of the embryonic circulatory system) and angiogenesis (the growth of blood vessels from pre-existing vasculature).	<b>Isotype:</b> IgG <b>SWISS:</b> P15692	<b>Applications:</b> IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (2ug/Test) <b>Reactivity:</b> Human, Rat, GuineaPig (predicted: Mouse, Pig, Sheep, Cow, Chicken, Dog) <b>Predicted MW.:</b> 24 kDa <b>Subcellular Location:</b> Secreted
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**VALIDATION IMAGES**

Paraformaldehyde-fixed, paraffin embedded (rat liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (VEGF-A) Polyclonal Antibody, Unconjugated (bs-4572R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: THP-1. Primary Antibody (green line): Rabbit Anti-VEGF-A antibody (bs-4572R) Dilution: 2µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. 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=5.58]** Fetoni, A. R., et al. "The redox protein p66shc mediates cochlear vascular dysfunction and transient noise-induced hearing loss." Scientific Reports 6 (2016): 25450. IHC ;="Mouse, Rat". 27157635
- **[IF=4.511]** Lin Li. et al. Overexpression and potential roles of midkine via regulation of vascular endothelial growth factor A in psoriasis. EXP DERMATOL. 2023 May;; IHC ;Human, Mouse. 37218430

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=4.982]** Tian Jing. et al. linc00958/miR-185-5p/RSF-1 modulates cisplatin resistance and angiogenesis through AKT1/GSK3 $\beta$ /VEGFA pathway in cervical cancer. REPROD BIOL ENDOCRIN. 2022 Dec;20(1):1-12 IF,IHC ;Human, Mouse. 36056431
- **[IF=4.52]** Shi et al. Peptide Lv augments L-type voltage-gated calcium channels through vascular endothelial growth factor receptor 2 (VEGFR2) signaling. (2015) Biochim.Biophys.Acta. 1853:1154-64 WB ;Chicken. 25698653
- **[IF=4.258]** Tian et al. Mechanisms of neuroprotection from hypoxia-ischemia (HI) brain injury by up-regulation of cytoglobin (CYGB) in a neonatal rat model. (2013) J.Biol.Che. 288:15988-6003 IHC ;Rat. 23585565