bs-1424R **[Primary Antibody]**

EPOR Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2057 **SWISS:** P19235

Target: EPOR

Immunogen: KLH conjugated synthetic peptide derived from human EPOR: 301-450/508. < 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: The erythropoietin receptor (EPOR) is a member of the cytokine receptor family. There are several isoforms including: EPOR-F (full length), EPOR-S (soluble form), and EPOR-T (truncated form). Upon erythropoietin (EPO) binding, the EPOR activates Jak2 tyrosine kinase which activates different intracellular pathways including: Ras/MAP kinase, phosphatidylinositol 3-kinase and STAT transcription factors. The stimulated EPOR appears to have a role in erythroid cell survival. Defects in the EPOR may produce erythroleukemia and familial erythrocytosis. A functional EPOR is found in the cardiovascular system, including endothelial cells and cardiomyocytes, and data suggest that the EPO/EPO receptor system plays an important role in cardiac function. In animal studies, treatment with EPO during ischemia/reperfusion in the heart has been shown to limit the infarct size and the extent of apoptosis.

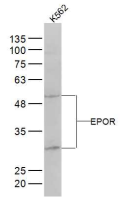
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

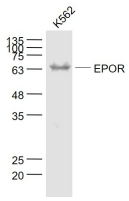
Predicted MW.: 56 kDa

Subcellular Location: Secreted ,Extracellular matrix ,Cell membrane

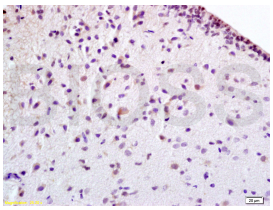
VALIDATION IMAGES



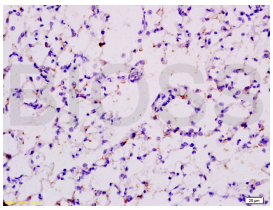
Sample: K562(Human) Cell Lysate at 30 ug Primary: Anti-EPOR (bs-1424R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kD Observed band size: 30/52 kD



Sample: K562(Human) Cell Lysate at 30 ug Primary: Anti- EPOR (bs-1424R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kD Observed band size: 64 kD



Tissue/cell: rat brain 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-EPOR Polyclonal Antibody, Unconjugated(bs-1424R) 1:100, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat lung 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-EPOR Polyclonal Antibody, Unconjugated(bs-1424R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=12.479]** Tao Liu. et al. Multifaceted roles of a bioengineered nanoreactor in repressing radiation-induced lung injury. Biomaterials. 2021 Oct;277:121103 IF ;Human. 34478930
- **[IF=7.561]** Wen Zhang. et al. Extracellular CIRP-Impaired Rab26 Restrains EPOR-Mediated Macrophage Polarization in Acute Lung Injury. Front Immunol. 2021; 12: 768435 FCM ;Mouse. 34925338
- **[IF=6.4]** Rajdeep Banerjee. et al. Differential regulation by CD47 and thrombospondin-1 of extramedullary erythropoiesis in mouse spleen. ELIFE. 2024 Jul FCM ;Mouse. 38979889
- **[IF=4.73]** Erdal Ayhan Işik. et al. Use of Erythropoietin and Fibrin Glue Mixture for Peripheral Nerve Repair. Plast Reconstr Surg. 2022 Feb;149(2):395-403 IHC ;Rat. 34898529
- **[IF=4.081]** Liu Jiayi. et al. Lithium Chloride Promotes Endogenous Synthesis of CLA in Bovine Mammary Epithelial Cells. BIOL TRACE ELEM RES. 2023 Apr;:1-14 WB ;Bovine. 37099221