

Anti-EPOR Polyclonal Antibody

Product Details

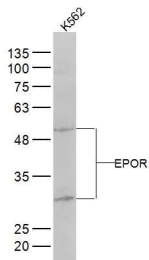
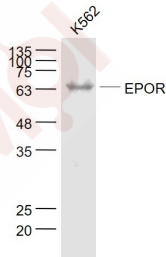
Ig Type: IgG
Reactivity: Human,Rat (predicted:Mouse,Dog,Cow,Horse)
Molecular Weight: Theoretical: 56 kDa. Actual: 63 kDa.
Purification: Protein A purified

Applications

1. Sample:
K562 (Human) Cell Lysate at 30 μ g
Primary: Anti-EPOR (TMAB-00628) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 56 kDa
Observed band size: 64 kDa

Verified Activity:

2. Sample:
K562 (Human) Cell Lysate at 30 μ g
Primary: Anti-EPOR (TMAB-00628) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 56 kDa
Observed band size: 30/52 kDa



Application: IF,IHC-Fr,WB
Recommended WB: 1:500-2000; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human EPOR

Antigen Species: Human

Gene ID: 2057

Uniprot ID: P19235

Synonyms: erythropoietin receptor;EPO-R

Biology Area: Angiogenic Factors,Endothelial Cell Markers,Ischemia / Reperfusion,Apoptosis,Hypertrophy, Receptors,Small G Proteins,Surface Molecules

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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