BOSTER BIOLOGICAL TECHNOLOGY
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Anti-EPO Receptor/Epor Antibody Picoband®

Catalog Number: A00427-2

About Epor

The erythropoietin receptor (EpoR) is a protein that in humans is encoded by the EPOR gene. This gene encodes the erythropoietin receptor which is a member of the cytokine receptor family. Upon erythropoietin binding, this receptor activates Jak2 tyrosine kinase which activates different intracellular pathways including: Ras/MAP kinase, phosphatidylinositol 3-kinase and STAT transcription factors. The stimulated erythropoietin receptor appears to have a role in erythroid cell survival. Defects in the erythropoietin receptor may produce erythroleukemia and familial erythrocytosis. Dysregulation of this gene may affect the growth of certain tumors. Alternate splicing results in multiple transcript variants.

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Overview

Product Name	Anti-EPO Receptor/Epor Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-EPO Receptor/Epor Antibody Picoband® catalog # A00427-2. Tested in ELISA, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P14753

Technical Details

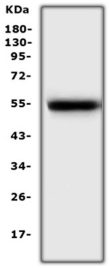
Immunogen	E. coli-derived mouse EPO Receptor recombinant protein (Position: D32-E225).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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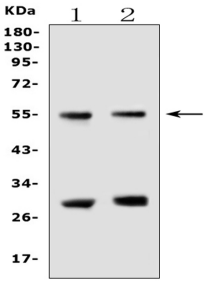
	blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml ELISA, 0.1-0.5ug/ml

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Anti-EPO Receptor/Epor Antibody Picoband® (A00427-2) Images



Western blot analysis of EPO Receptor using anti-EPO Receptor antibody (A00427-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat lung tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-EPO Receptor antigen affinity purified polyclonal antibody (Catalog # A00427-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for EPO Receptor at approximately 55KD. The expected band size for EPO Receptor is at 55KD.



Western blot analysis of EPO Receptor using anti-EPO Receptor antibody (A00427-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human U87-MG whole cell lysates, Lane 2: human A431 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-EPO Receptor antigen affinity purified polyclonal antibody (Catalog # A00427-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for EPO Receptor at approximately 55KD. The expected band size for EPO Receptor is at 55KD.

1 Publications Citing This Product

1. PubMed ID: 21339183, Gao Y, Mengana Y, Cruz Yr, Mu??oz A, Test?? Is, Garc??a Jd, Wu Y, Rodr??guez Jc, Zhang C. J Histochem Cytochem. 2011 Feb;59(2):214-27. Doi: 10.1369/0022155410390323. Different Expression Patterns Of Ngb And Epor In The Cerebral Cortex And Hippocam...

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For Research Use Only. Not for use in diagnostic procedures.