BOSTER BIOLOGICAL TECHNOLOGY
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Anti-EGFR Picoband® Antibody

Catalog Number: A00023-2

About Egfr

The epidermal growth factor receptor (EGFR; ErbB-1; HER1 in humans) is a transmembrane protein that is a receptor for members of the epidermal growth factor family (EGF family) of extracellular protein ligands. It is mapped to 11 A2; 11 9.41 cM. The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer.

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Overview

Product Name	Anti-EGFR Picoband® Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-EGFR Picoband® Antibody catalog # A00023-2. Tested in ELISA, IHC, 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, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg 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	Q01279

Technical Details

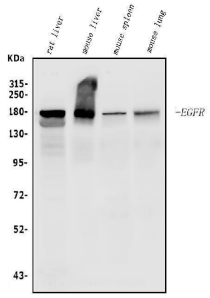
Immunogen	E.coli-derived mouse EGFR recombinant protein (Position: L25-P596).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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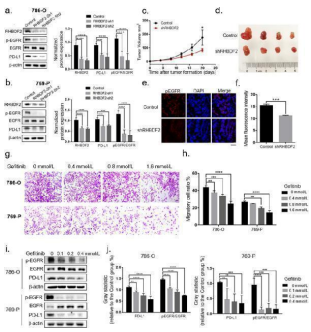
	blot, and HRP Conjugated anti- Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat ELISA, 0.1-0.5ug/ml, -

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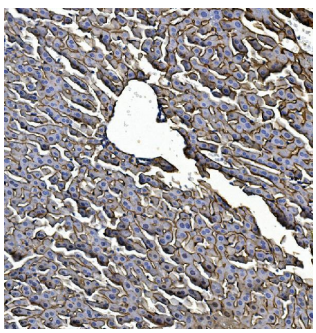
Anti-EGFR Picoband® Antibody (A00023-2) Images



Western blot analysis of EGFR using anti-EGFR antibody (A00023-2). 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 liver tissue lysates, Lane 2: mouse liver tissue lysates, Lane 3: mouse spleen tissue lysates, Lane 4: mouse 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-EGFR antigen affinity purified polyclonal antibody (Catalog # A00023-2) 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 1:5000 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 EGFR at approximately 180KD. The expected band size for EGFR is at 180KD.



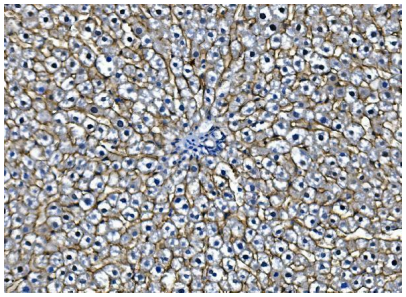
RHBDF2 related functions were mediated by EGFR signaling pathway. a , b Phosphorylation of EGFR and PD-L1 protein level in 786-O and 769-P cells were detected by western blot. Significance testing of gray statistics was analyzed by two-way ANOVA. c Growth rate of the transplanted tumor in the control group and RHBDF2 knockdown group (data were presented as the mean ± SEM and subjected to two-way ANOVA for significance test). d Representative images of xenografts in nude mice. e Immunofluorescent staining of phosphorylation of EGFR in the graft sections (The horizontal line at the bottom right represents 50 microns). f The mean fluorescence intensity of the phosphorylation staining of EGFR in the graft sections (t-test). g The migratory ability testing of 786-O cells and 769-P cells after Gefitinib treatment. h Statistics of the cell migratory ability after Gefitinib treatment (two-way ANOVA). i The detection of pEGFR and PD-L1 level in 786-O and 769-P cells after Gefitinib treatment. j Gray statistics of pEGFR and PD-L1 level in 786-O and 769-P cells (two-way ANOVA, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.005$, **** $p < 0.001$) Index in PubMed under a CC BY license. PMID: 34736454



IHC analysis of EGFR using anti-EGFR antibody (A00023-2). EGFR was detected in paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EGFR Antibody (A00023-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog

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SA1022) with DAB as the chromogen.



IHC analysis of EGFR using anti-EGFR antibody (A00023-2). EGFR was detected in paraffin-embedded section of rat liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EGFR Antibody (A00023-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

2 Publications Citing This Product

1. PubMed ID: 10.1186/s12935-021-02277-0, RHBDF2 gene functions are correlated to facilitated renal clear cell carcinoma progression

2. PubMed ID: -, Study of the correlation between the expression of nuclear factor kappa B and proliferation regulatory proteins and chronic superficial gastritis,Hu Hui,Ma Zhijian,Ren Shouzhong,Xie Yiqiang, Vojnosanitetski pregled 2020 OnLine-First,00,SP - 135 EP-135

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