BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-EGF Antibody Picoband®

Catalog Number: A00378-1

About Egf

EGF is known as epidermal growth factor. This gene encodes a member of the epidermal growth factor superfamily. The encoded preproprotein is proteolytically processed to generate the 53-amino acid epidermal growth factor peptide. This protein acts a potent mitogenic factor that plays an important role in the growth, proliferation and differentiation of numerous cell types. Additionally, it acts by binding with high affinity to the cell surface receptor, epidermal growth factor receptor. Defects in this gene are the cause of hypomagnesemia type 4. Dysregulation of this gene has been associated with the growth and progression of certain cancers. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.

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Overview

Product Name	Anti-EGF Antibody Picoband®
Reactive Species	Rat
Description	Boster Bio Anti-EGF Antibody Picoband® catalog # A00378-1. Tested in ELISA, IHC, WB applications. This antibody reacts with 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	IHC, WB, ELISA (Cap)
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	P07522

Technical Details

Immunogen	E. coli-derived rat EGF recombinant protein (Position: N974-R1026). Rat EGF shares 69.8% and 77.4% amino acid (aa) sequence identity with human and mouse EGF, respectively.

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western 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, 0.1-0.5ug/ml, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat ELISA(Cap) , 1-5ug/ml, Rat

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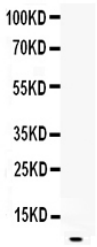
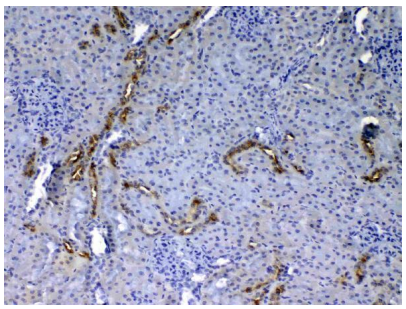
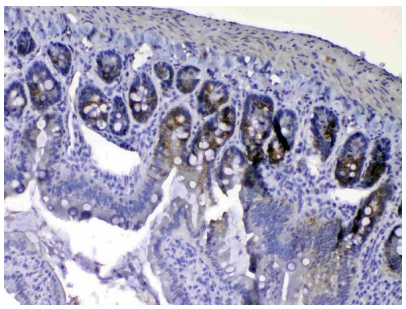
Anti-EGF Antibody Picoband® (A00378-1) Images



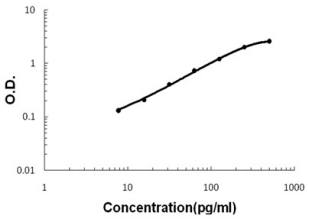
Western blot analysis of EGF using anti-EGF antibody (A00378-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.Lane 1: recombinant rat EGF protein 1ng. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-EGF antigen affinity purified polyclonal antibody (Catalog # A00378-1) 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 EGF at approximately 6KD. The expected band size for EGF is at 6KD.



IHC analysis of EGF using anti-EGF antibody (A00378-1). EGF was detected in paraffin-embedded section of rat kidney tissue . Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EGF Antibody (A00378-1) 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.



IHC analysis of EGF using anti-EGF antibody (A00378-1). EGF was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EGF Antibody (A00378-1) 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.



Sandwich ELISA - Recombinant rat EGF protein standard curve. Use in combination with reagents from Rat EGF ELISA Kit EZ-Set (DIY Antibody Pairs) (EZ0954).

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10 Publications Citing This Product

1. PubMed ID: 10.3748/wjg.v11.i31.4788, Effect of IL-10 on the expression of HSC growth factors in hepatic fibrosis rat

2. PubMed ID: 10.1007/s00296-013-2756-6, Proton pump inhibitors are not the key for therapying non-steroidal anti-inflammatory drugs-induced small intestinal injury

3. PubMed ID: 10.1016/j.actbio.2019.10.011, Biomimetic hydrogel for rapid and scar-free healing of skin wounds inspired by the healing process of oral mucosa

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Anti-EGF Antibody

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