

Anti-EGF Picoband Antibody
Catalog # ABO12828**Specification**

Anti-EGF Picoband Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P07522
Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Pro-epidermal growth factor(Egf) detection. Tested with WB, IHC-P, ELISA in Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-EGF Picoband Antibody - Additional Information

Gene ID 25313

Other Names

Pro-epidermal growth factor, EGF, Epidermal growth factor, Egf

Calculated MW

124126 MW KDa

Application Details

ELISA , 0.1-0.5 µg/ml, Rat,
 Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, By Heat
 Western blot, 0.1-0.5 µg/ml, Rat

Subcellular Localization

Membrane; Single-pass type I membrane protein.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

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.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution,

at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-EGF Picoband Antibody - Protein Information

Name Egf

Function

EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. Magnesiotropic hormone that stimulates magnesium reabsorption in the renal distal convoluted tubule via engagement of EGFR and activation of the magnesium channel TRPM6 (By similarity).

Cellular Location

Membrane; Single-pass type I membrane protein.

Anti-EGF Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-EGF Picoband Antibody - Images

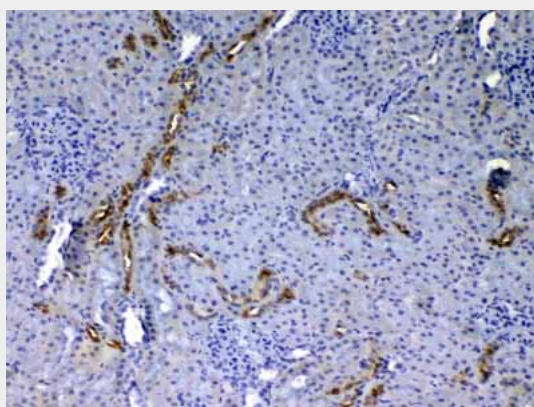
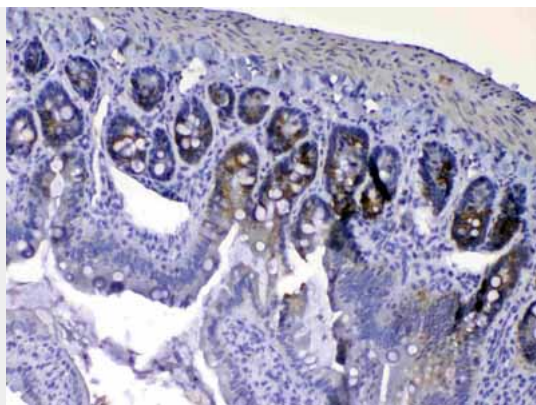


Figure 2. IHC analysis of EGF using anti-EGF antibody (AB012828).



100KD —
70KD —
55KD —
35KD —
25KD —
15KD —

Anti-EGF Picoband Antibody - Background

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.