

Anti-EGF Picoband Antibody
Catalog # ABO12547**Specification**

Anti-EGF Picoband Antibody - Product Information

Application	WB, E
Primary Accession	P01133
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Pro-epidermal growth factor(EGF) detection. Tested with WB, ELISA in Human.

Reconstitution

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

Anti-EGF Picoband Antibody - Additional Information

Gene ID 1950

Other Names

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

Calculated MW

133994 MW KDa

Application Details

ELISA , 0.1-0.5 µg/ml, Human, -
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Membrane; Single-pass type I membrane protein.

Tissue Specificity

Expressed in kidney, salivary gland, cerebrum and prostate. .

Protein Name

Pro-epidermal growth factor

Contents

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

Immunogen

E. coli-derived human EGF recombinant protein (Position: N971-R1023). Human EGF shares 69.8% amino acid (aa) sequence identity with both mouse and rat EGF.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, 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. Can induce neurite outgrowth in motoneurons of the pond snail *Lymnaea stagnalis* in vitro (PubMed: <http://www.uniprot.org/citations/10964941>).

Cellular Location

Membrane; Single-pass type I membrane protein.

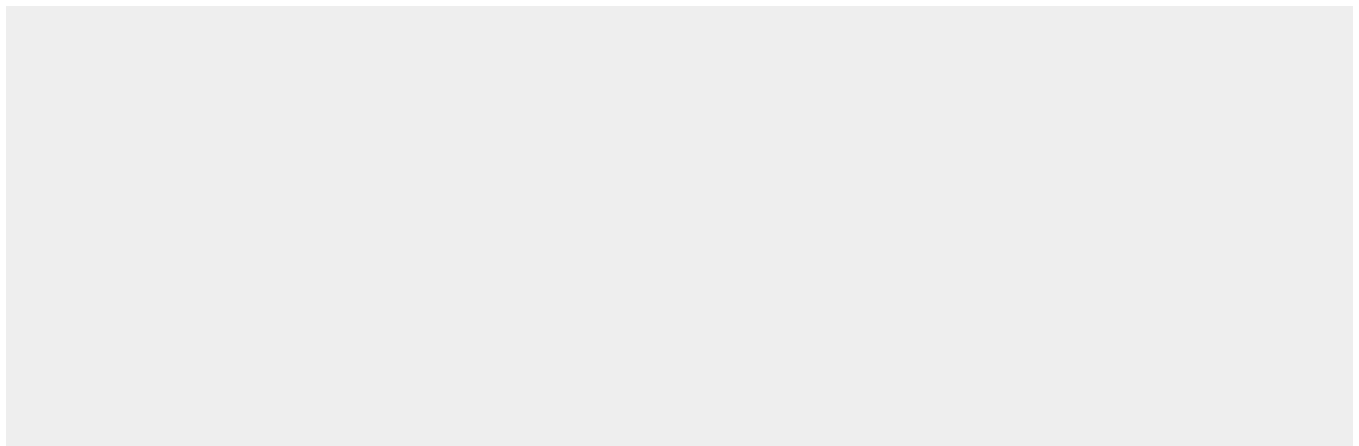
Tissue Location

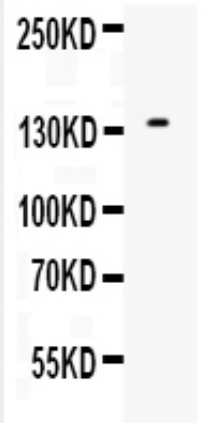
Expressed in kidney, salivary gland, cerebrum and prostate.

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



Western blot analysis of EGF expression in 22RV1 whole cell lysates (lane 1). EGF at 134KD was detected using rabbit anti- EGF Antigen Affinity purified polyclonal antibody (Catalog # ABO12547) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

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 as 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.