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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 NaN3.

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 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. Can induce neurite outgrowth in motoneurons of the pond snail Lymnaea stagnalis in vitro (PubMed: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 Cytomety
- Cell Culture

Anti-EGF Picoband Antibody - Images

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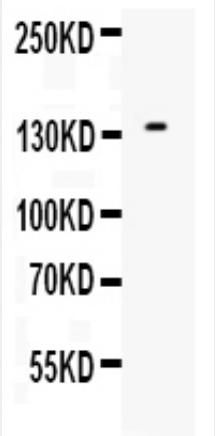

Western blot analysis of EGF expression in 22RV1 whole cell lysates (lane 1). EGF at 134KD was detected using rabbit anti- EGF Antigen Affinity purified polyclonal antibody (Catalog # ABO12547) at0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .

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 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.