

# Anti-EGF Picoband Antibody

Catalog # ABO12828

## Product Information

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|--------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P, E                                                                                                        |
| <b>Primary Accession</b> | <a href="#">P07522</a>                                                                                              |
| <b>Host</b>              | Rabbit                                                                                                              |
| <b>Reactivity</b>        | Rat                                                                                                                 |
| <b>Clonality</b>         | Polyclonal                                                                                                          |
| <b>Format</b>            | Lyophilized                                                                                                         |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Pro-epidermal growth factor(Egf) detection. Tested with WB, IHC-P, ELISA in Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                |

## Additional Information

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| <b>Gene ID</b>                  | 25313                                                                                                                                                                              |
| <b>Other Names</b>              | Pro-epidermal growth factor, EGF, Epidermal growth factor, Egf                                                                                                                     |
| <b>Calculated MW</b>            | 124126                                                                                                                                                                             |
| <b>Application Details</b>      | ELISA , 0.1-0.5 $\mu$ g/ml, Rat,<br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 $\mu$ g/ml, Rat, By Heat<br>Western blot, 0.1-0.5 $\mu$ g/ml, Rat                       |
| <b>Subcellular Localization</b> | Membrane; Single-pass type I membrane protein.                                                                                                                                     |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                          |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                         |
| <b>Immunogen</b>                | 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.       |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                       |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins.                                                                                                                                           |
| <b>Storage</b>                  | 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. |

## Protein Information

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| <b>Name</b>              | Egf                                                                                                                                                                                                                                                                                                                           |
| <b>Function</b>          | 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). |
| <b>Cellular Location</b> | Membrane; Single-pass type I membrane protein.                                                                                                                                                                                                                                                                                |

## 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.

## Images

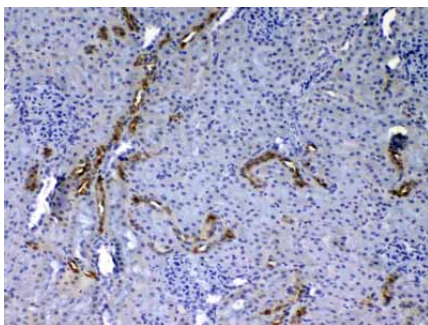
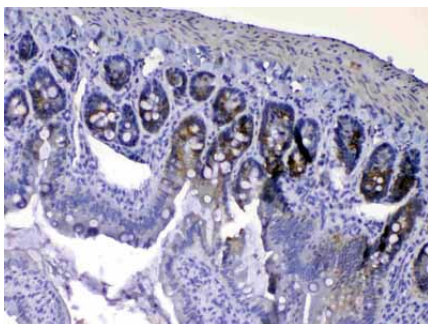


Figure 2. IHC analysis of EGF using anti-EGF antibody (ABO12828).



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