

**Anti-EGF Antibody**  
**Catalog # ABO10721****Specification**

---

**Anti-EGF Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P01132</a>
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized

**Description**

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

**Reconstitution**

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

**Anti-EGF Antibody - Additional Information**

**Gene ID** 13645

**Other Names**

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

**Calculated MW**

133072 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Mouse<br>

**Subcellular Localization**

Membrane; Single-pass type I membrane protein.

**Protein Name**

Pro-epidermal growth factor(EGF)

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of mouse EGF(1013-1029aa YSGDRCQTRDLRWELR).

**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.**

#### **Sequence Similarities**

Contains 9 EGF-like domains.

### **Anti-EGF 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**

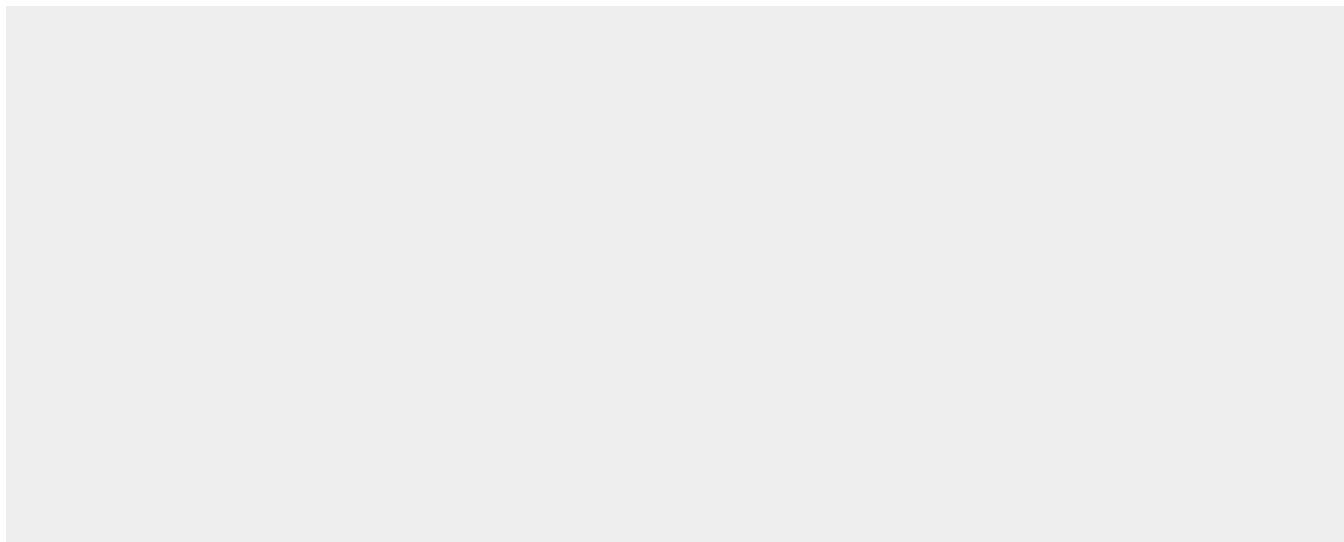
Membrane; Single-pass type I membrane protein.

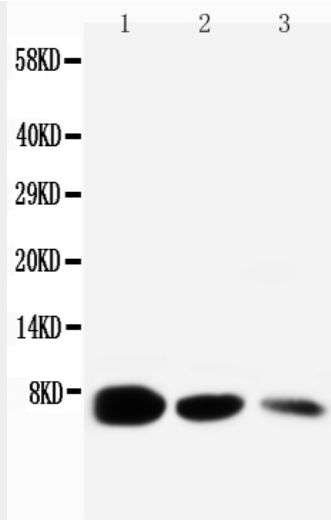
### **Anti-EGF Antibody - Protocols**

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

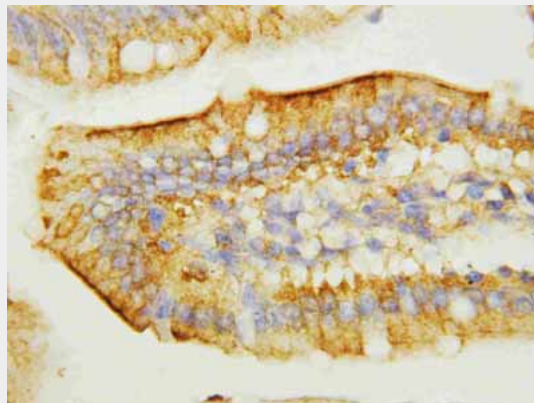
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Anti-EGF Antibody - Images**





Anti-EGF antibody, ABO10721, Western blotting  
Lane 1: Recombinant Mouse EGF Protein 10ng  
Lane 2: Recombinant Mouse EGF Protein 5ng  
Lane 3: Recombinant Mouse EGF Protein 2.5ng



Anti-EGF antibody, ABO10721, IHC(P)  
IHC(P): Mouse Intestine Tissue

### Anti-EGF Antibody - Background

Epidermal growth factor(EGF) is a growth factor that plays an important role in the regulation of cell growth, proliferation and differentiation by binding to its receptor EGFR. EGF locus is mapped to 4q21-4qter. Human EGF is a 6045-Da protein with 53 amino acid residues and three intramolecular disulfide bonds. EGF results in cellular proliferation, differentiation, and survival while plays an important physiological role in the maintenance of oro-esophageal and gastric tissue integrity.