

## Mouse EGF ELISA Kit | EGF elisa kit

Mouse EGF PicoKine ELISA Kit

CATALOG #  
**AAA45322**

REACTIVITY  
**Mouse**

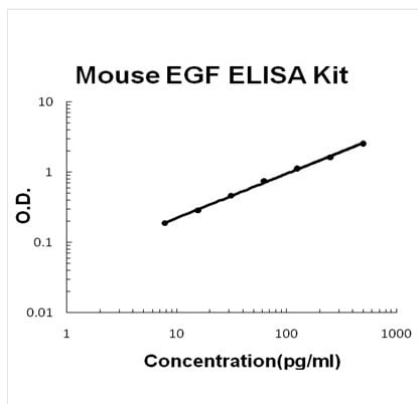
### PRODUCT SYNONYMS

EGF; Mouse EGF PicoKine ELISA Kit; Pro-epidermal growth factor; epidermal growth factor; Beta urogastrone; Epidermal growth factor; HOMG4; OTTHUMP00000219721; OTTHUMP00000219722; Pro epidermal growth factor; URG; Urogastrone; EGF elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                      |
| Specificity             | Natural and recombinant mouse EGF                                                                                          |
| Sequence Length         | 1217                                                                                                                       |
| Samples                 | Cell culture supernates, serum, plasma (heparin, EDTA), tissue homogenates and urine                                       |
| Assay Type              | Sandwich                                                                                                                   |
| Detection Range         | 15.6pg/ml-1000pg/ml                                                                                                        |
| Sensitivity             | < 1pg/ml                                                                                                                   |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.) |

### IMAGES



Standard Curve (Sample)

Mouse EGF PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for EGF elisa kit | <p><b>Principle of the assay:</b> mouse EGF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for EGF has been precoated onto 96-well plates. Standards (E.coli,N977-R1029) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for EGF is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse EGF amount of sample captured in plate.</p> <p><b>Background:</b> Epidermal growth factor or 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 acts by binding with high affinity to epidermal growth factor receptor (EGFR) on the cell surface and stimulating the intrinsic protein-tyrosine kinase activity of the receptor. EGF results in cellular proliferation, differentiation, and survival.<sup>1</sup> It also has a profound effect on the differentiation of specific cells in vivo and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin.<sup>2</sup> EGF has strong expression in kidney, salivary gland, cerebrum, and prostate, moderate expression in trachea and thyroid, and low expression in bone marrow, heart, spleen, thymus, uterus, and colon. No expression was detected in adrenal gland, liver, lung, cerebellum, placenta, and small intestine.<sup>3</sup></p> |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| NCBI GI #                        | 341940478                                                                |
| NCBI GeneID                      | 13645                                                                    |
| UniProt Accession #              | P01132; Q569W5; Q6P9J2; E9QNX6                                           |
| Molecular Weight                 | 133,072 Da                                                               |
| NCBI Official Full Name          | Pro-epidermal growth factor                                              |
| NCBI Official Synonym Full Names | epidermal growth factor                                                  |
| NCBI Official Symbol             | Egf                                                                      |
| NCBI Official Synonym Symbols    | AI790464                                                                 |
| NCBI Protein Information         | pro-epidermal growth factor; Pro-epidermal growth factor precursor (EGF) |
| UniProt Protein Name             | Pro-epidermal growth factor                                              |
| UniProt Gene Name                | Egf                                                                      |
| UniProt Synonym Gene Names       | EGF                                                                      |
| UniProt Entry Name               | EGF_MOUSE                                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.