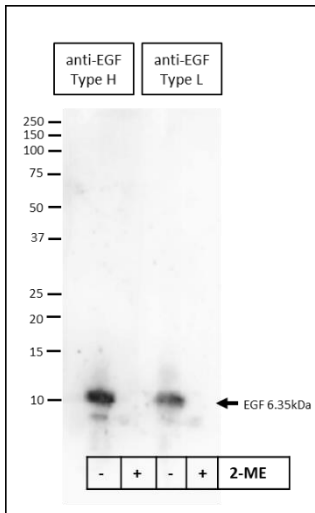


## Anti-EGF antibody, mouse monoclonal (Type H), neutralizing

|  |  |
|--|--|
| <b>Product code</b>  | 71-505   |
| <b>Size</b>  | 100 µg   |
| <b>Storage</b>   | -20°C  |
| <b>Concentration</b>   | 1.0 mg/ml  |
| <b>Buffer</b>  | PBS- with 50% glycerol   |
| <b>Purity</b>  | Purified IgG fraction with protein A from hybridoma cell culture medium  |
| <b>Immunogen</b>   | Purified EGF from human urine  |
| <b>Isotype</b>   | mouse IgG1κ  |
| <b>Reactivity</b>  | human EGF, Type H = high affinity( $K_d=1.7 \times 10^{-10}$ ) for human EGF; has different epitope compared with Anti-human EGF, Type L (71-507); dose not react with mouse EGF or human TGF-α.   |
| <b>Special notes</b>   |  |
| <b>Application</b>   | <ol style="list-style-type: none"> <li>1. Western blotting: (1µg/ml) Under non-reducing conditions.</li> <li>2. Biological neutralization of EGF: 2 µg/ml of antibody (Type H) effects 50% inhibition of <sup>3</sup>H-thymidine incorporation by BALB/3T3-3K cells in the presence of 0.5 ng/ml human EGF. Under the same conditions, 10µg/ml of antibody effects 100% inhibition of <sup>3</sup>H-thymidine incorporations. (Ref.1)</li> </ol> |
| <b>Background</b>  | Epidermal growth factor (EGF) 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. The EGF precursor is believed to exist as a membrane-bound molecule which is proteolytically cleaved to generate the 53-amino acid peptide hormone that stimulates cells to divide.  |
| <b>Data Link</b>   | UniProtKB <a href="#">P01133</a> (EGF_Human)   |
| Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE. |  |

**Data Images:** 71-505 Anti-EGF antibody, mouse monoclonal (Type H), neutralizing

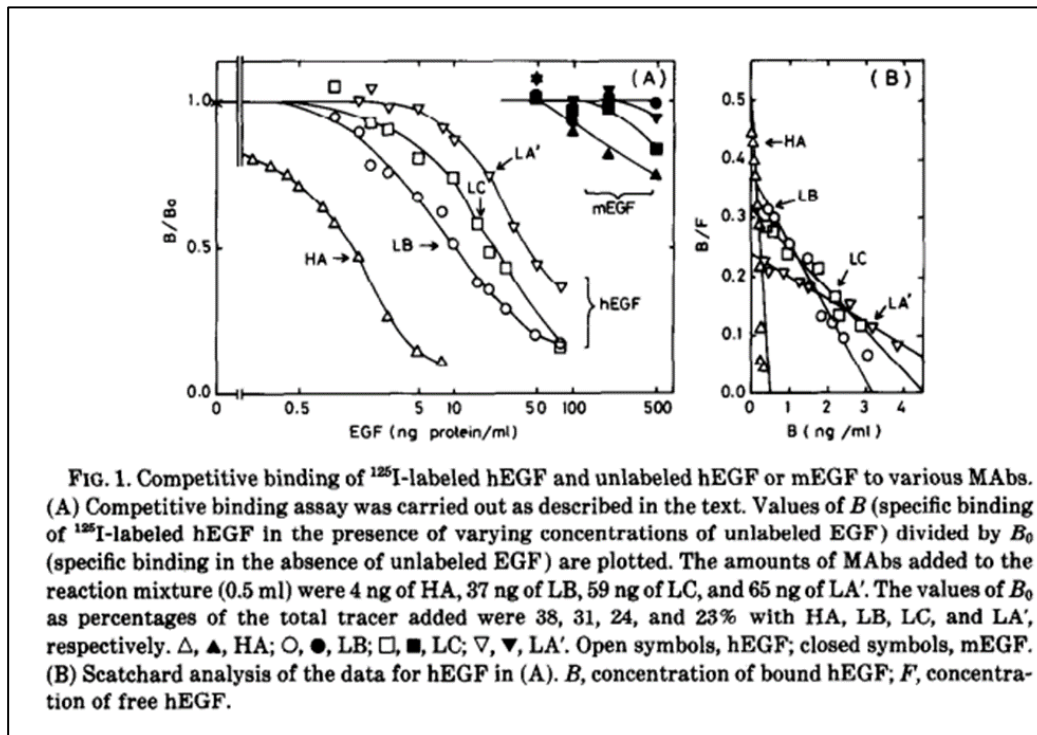


**Fig.1 Western Blot of EGF**

Applied sample; 0.1 $\mu$ g of recombinant EGF under non-reducing conditions.

Primary antibody; 1 $\mu$ g/ml of anti-EGF antibody

Recommended using 71-505 anti-EGF antibody (Type H)



**Fig2. Competitive binding of  $^{125}$ I I-labeled hEGF and unlabeled hEGF (Ref.1)**

71-505 Anti-EGF antibody, mouse monoclonal (Type H); HA

71-507 Anti-EGF antibody, mouse monoclonal (Type L); LB

**Related product:**

71-507 Anti-EGF antibody, mouse monoclonal (Type L), neutralizing

**Reference:** This product has been used in the following publications.

1. Yoshitake Y, Nishikawa K. Production of monoclonal antibodies with specificity for different epitopes on the human epidermal growth factor molecule. Arch Biochem Biophys. 1988 Jun;263(2):437-46. [PMID: 2454080](#) **Neutralization**
2. Nishikawa K, *et al.* Derivation of monoclonal antibody to human epidermal growth factor. Methods Enzymol. 1987;146:11-22. [PMID: 3500383](#)