



Anti EGF (Rat) Serum

Cat. No. YII-Y231-EX Lot No. 30171129

Description: This antiserum was raised in a rabbit by immunization with a carrier free recombinant EGF (rat)¹⁾. The product vial contains 50 µL of the titled antiserum obtained by lyophilizing its 0.001 M phosphate buffer (pH 7.0, 0.5mL) solution. It can be used for immunoassay, immunohistochemistry or any other immunoreaction with EGF (rat).

Immunogen: Recombinant EGF (rat), carrier free **Host:** Rabbit

Amino Acid Sequence of EGF (rat)²⁾:

NSNTGCPPSY DGYCLNGGVC MYVESVDRYV CNCVIGYIGE RCQHRDLRWW KLR

Product Form: Lyophilized unpurified serum **Size:** 50 µL

Reconstitution: Reconstitute the product with 0.5mL of 0.01M PBS (pH 7.0) to make a 10 fold diluted stock solution. If it is stored in a refrigerator, add moderate antiseptic to the solution (e.g. NaN₃ 0.1%).

Storage: The product will be stable for over one year if it be stored at -20°C to -80°C until opened. Upon reconstitution, the antiserum solution must be stored at 2°C to 8°C and used within one month. Repeated freezing-thawing should be avoided.

Suggested Working Dilution Range: 1:5,000-20,000 (final dilution ~1:140,000) for radioimmunoassay;

1: 1,000-4,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay)^{3,4,5)}: EGF (rat) 100%, EGF (human) 0.1%, EGF (mouse) 1.5%, TGF-α (human) 0%, IGF-1 (human) 0%, insulin (porcine) 0%, glucagon 0%

Positive Control (immunohistochemistry): Rat submaxillary

Species Tested: Rat

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- 1) H. Ohgai, N. Yanaihara et al., Production of rat epidermal growth factor by Escherichia coli cells containing a secretion plasmid, *Journal of Biotechnology*, 10:151-160, 1989
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- 5) Y. Hirotsu, N. Yanaihara et al., Levels of c-K-ras and hst-1/k-FGF gene products and EGF in regenerating rat liver after partial hepatectomy, *Biomedical Research*, 16(2):73-81, 1995

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TEL : +81-3-5632-9617
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URL : <http://www.cosmobio.co.jp/>
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Manufacturer



2480-1 Awakura, Fujinomiya-shi,
Shizuoka 418-0011, JAPAN
Phone: +81-544-22-2771
Fax: +81-544-22-2770
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