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 recon- stitution, 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

REFERENCES:
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
2) R.J. Simpson, J. A. Smith et al., Rat epidermal growth factor: complete amino acid sequence. Homology with the corresponding murine and human proteins; isolation of a form truncated at both ends with full in vitro biological activity. European Journal of Biochemistry 153:629-637, 1985
3) H. Ohgai, N. Yanaihara et al., Synthesis of rat EGF by gene technology and its use for immunochemical study of EGF in the rat, Peptide Chemistry 1987, T Shiba & S Sakakibara (Ed), Protein Research Foundation, Osaka, P445-448, 1988
4) T. koide, N. Yanaihara et al., Development of rat EGF specific RIA and immunoreactive EGF in rat tissues and urine. Proceedings of 11th Gut Hormone Conference, Japan Society of Gut Hormones (Ed), 1989, 9:p625-632
5) Y. Hirotani, 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

FOR RESEARCH LABORATORY USE ONLY

DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

COSMO BIO CO., LTD.
Inspiration for Life Science
TOYO EKIMAE BLDG, 2-20,TOYO 2CHOME,KOTO-KU,TOKYO 135-0016,JAPAN
TEL: +81-3-5632-9617 FAX: +81-3-5632-9618 e-mail: export@cosmobio.co.jp
www.cosmobio.co.jp