

Anti EGF (Human) Serum

Cat. No. Y230

Lot No. 10271201

Description: This antiserum was raised in a rabbit by immunization with a carrier free recombinant EGF (human). The product vial contains 50 μ L 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 (human).

Immunogen: Recombinant EGF (human), carrier free

Host: Rabbit

Amino Acid Sequence of EGF (human)¹⁾:

NSDSECPLSH DGYCLHDGVC MYIEALDKYA CNCVVG YIGE RCQYRDLKWW ELR

Product Form: Lyophilized unpurified serum

Size: 50 μ L

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: 1:5,000-12,000 (final dilution ~1:84,000) 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^{2,3)}: EGF (human) 100%, EGF (rat) 0.006%, EGF (mouse) 0%, TGF- α (human) 0%, IGF-1 (human) 0%, insulin (porcine) 0%, glucagon 0%, ACTH (human) 0%, PHI (human) 0%

Positive Control (immunohistochemistry): Human or rat submaxillary.

Species Tested: Human, rat

REFERENCES:

- 1) G.I. Bell, N.M. Fong et al., Human epidermal growth factor precursor: cDNA sequence, expression in vitro and gene organization. Nucleic Acids Research. 14:8427-8432, 1986
- 2) S. Oguchi, N. Yanaihara et al., EGF-like immunoreactivity in saliva and gastric juice of children. Proceedings of 9th Gut Hormone Conference, Japan Society of Gut Hormones (Ed.) 1987, 7:383-389, 1987
- 3) S. Oguchi, N. Yanaihara et al., EGF-like immunoreactivity in urine of children. Proceedings of 10th Gut Hormone Conference, Japan Society of Gut Hormones (Ed.) 8:648-653, 1988

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