Anti Chromogranin A (344-374) (Human) Serum

Cat. No. Y293 Lot No. 76140224

Description: This antiserum was raised in a rabbit by immunization with a carrier free synthetic chromogranin A (344-374) (human) peptide. 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 chromogranin A related peptides.

Immunogen: Synthetic chromogranin A (344-374) (human), carrier free **Host:** Rabbit

Amino Acid Sequence of Chromogranin A (344-374) (human)[1]:

344 374

EEEEDNR DSSMKLSFRA RAYGFRGPGP QLRR

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. NaN_3 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: 1:500-1,200 (final dilution ~1:3,500-8,400) for radioimmunoassay[2,3]; 1:2,500 for enzyme immunoassay[4], 1: 1,000 for immunohistochemistry (frozen section). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay): CgA (344-374) (human) 100%, CgA (359-389) (rat) 33.5%, not react with CgA (375-389) (rat) and CgA (360-374) (human)

Positive Control (immunohistochemistry): Rat pituitary gland and adrenal gland

Species Tested: Rat

REFERENCES:

1) D.S. Konecki, U.M. Benedum et al., The primary structure of human chromogranin A and pancreastatin. Journal of Biological Chemistry, 262:17026, 1987

2) Y. Nishikawa, J. Li et al., Region-specific radioimmunoassay for human chromogranin A, Biomedical Research, 19:245-252, 1998

3) H. Yanaihara, M. Hata et al., Application of region-specific immunoassay for human chromogranin A: substantial clue for detection and measurement of chromogranin A in human plasma, regulated Peptide, 80:83-90, 1999

4) S. Nagasawa, Y. Nishikawa et al., Simple enzyme immunoassay for the measurement of immnoreactive chromogranin A in human plasma, urine, and saliva, Biomedical Research, 19: 407-410, 1998

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