

Monoclonal Anti- Chromogranin-A, CgA**Catalog#** BMA1012**Lot #** Check on the product label**Size** 100 µg**Isotype** IgG2a**Clone #** S27-1**Host** Mouse**Reactivity**

Human, mouse, rat

Product Form Liquid**Purification** Cultured cell supernatant,
Protein A purified**Immunogen**A synthetic peptide (conjugated with KLH)
corresponding to the C-terminal of human
CgA.**Recommend Application**Western Blot, WB (1:100-1:200)
Immunohistochemistry, IHC-P(1:20-1:100)
Immunocytochemistry, ICC (1:20-1:100)
Other applications have not been tested.
The optimal dilutions should be determined
by end user.**Storage Buffer**1*PBS (pH7.4), 0.2% BSA, 40% Glycerol
and 0.05% Sodium Azide.**Storage Instruction**Store at 4°C after thawing (1 week).
Aliquot and store at -20°C for long term (at
least one year).
Avoid repeated freeze and thaw cycles.**Background**

Chromogranin A (CgA), also called

parathyroid secretory protein 1, is a member of the granin family of neuroendocrine secretory proteins. It is located in secretory vesicles of neurons and endocrine cells. Chromogranin A gene has 8 exons and 7 introns spanning about 11 kb¹. It is elevated in pheochromocytomas², and also used as an indicator for pancreas and prostate cancer³ and in carcinoid syndrome⁴. It also plays a role in early neoplastic progression.

Reference

1. Wu, H.-J., Rozansky, D. J., Parmer, R. J., Gill, B. M., O'Connor, D. T. Structure and function of the chromogranin A gene: clues to evolution and tissue-specific expression. *J. Biol. Chem.* 266: 13130-13134, 1991.
2. Cotesta D, Caliumi C, Alò P, Petramala L, Reale MG, Masciangelo R, Signore A, Cianci R, D'Erasmus E, Letizia C (2005). "High plasma levels of human chromogranin A and adrenomedullin in patients with pheochromocytoma". *Tumori* 91 (1): 53–8.
3. Wu JT, Erickson AJ, Tsao KC, Wu TL, Sun CF (April 2000). "Elevated serum chromogranin A is detectable in patients with carcinomas at advanced disease stages". *Ann. Clin. Lab. Sci.* 30 (2): 175–8.
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