

## Chromogranin A

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Journal of molecular neuroscience: MN (2012) 48(2): 317-22.

**Selected General References** 

The functional role of chromogranins in exocytosis.

Journal of cell science (2011) 124(Pt 5): 735-44.

Chromogranin B gene ablation reduces the catecholamine cargo and decelerates exocytosis in chromaffin secretory vesicles. Díaz-Vera J, Morales YG, Hernández-Fernaud JR, Camacho M, Montesinos MS, Calegari F, Huttner WB, Borges R, Machado JD The Journal of neuroscience: the official journal of the Society for Neuroscience (2010) 30(3): 950-7.

A distinct trans-Golgi network subcompartment for sorting of synaptic and granule proteins in neurons and neuroendocrine

Cellular distribution of chromogranin A in excitatory, inhibitory, aminergic and peptidergic neurons of the rodent central nervous system.

Schafer MK, Mahata SK, Stroth N, Eiden LE, Weihe E

Regulatory peptides (2010) 165(1): 36-44.

Chromogranins A and B as regulators of vesicle cargo and exocytosis. Machado JD. Díaz-Vera J. Domínguez N. Alvarez CM. Pardo MR. Borges R

Domínguez N, Estévez-Herrera J, Pardo MR, Pereda D, Machado JD, Borges R

Cellular and molecular neurobiology (2010) 30(8): 1181-7.

The crucial role of chromogranins in storage and exocytosis revealed using chromaffin cells from chromogranin A null mouse. Montesinos MS, Machado JD, Camacho M, Diaz J, Morales YG, Alvarez de la Rosa D, Carmona E, Castañeyra A, Viveros OH, O'Connor DT. Mahata SK. et al.

The Journal of neuroscience: the official journal of the Society for Neuroscience (2008) 28(13): 3350-8.

Chromogranin A, an "on/off" switch controlling dense-core secretory granule biogenesis.

Kim T, Tao-Cheng JH, Eiden LE, Loh YP

Cell (2001) 106(4): 499-509.

Chromogranin B (secretogranin I), a neuroendocrine-regulated secretory protein, is sorted to exocrine secretory granules in transgenic mice.

Natori S, King A, Hellwig A, Weiss U, Iguchi H, Tsuchiya B, Kameya T, Takayanagi R, Nawata H, Huttner WB The EMBO journal (1998) 17(12): 3277-89.

Rat brain: distribution of immunoreactivity of PE-11, a peptide derived from chromogranin B.

Kroesen S, Marksteiner J, Leitner B, Hogue-Angeletti R, Fischer-Colbrie R, Winkler H

The European journal of neuroscience (1996) 8(12): 2679-89.

Structure and function of the chromogranin A gene. Clues to evolution and tissue-specific expression.

Wu HJ, Rozansky DJ, Parmer RJ, Gill BM, O'Connor DT

The Journal of biological chemistry (1991) 266(20): 13130-4.

The primary structure of bovine chromogranin A: a representative of a class of acidic secretory proteins common to a variety of peptidergic cells.

Benedum UM, Baeuerle PA, Konecki DS, Frank R, Powell J, Mallet J, Huttner WB The EMBO journal (1986) 5(7): 1495-502.

## Cat.No. 259-0P; control protein, 100 µg protein (lyophilized)

	Reconstitution/ Storage	100 μg protein, lyophilized. For reconstitution add 100 μl H <sub>2</sub> O to get a 1mg/ml solution in TBS. Then aliquot and store at -20°C until use.
	Immunogen	Recombinant protein corresponding to AA 348 to 463 from mouse Chromogranin A (UniProt Id: P26339)
	Recommended dilution	Optimal concentrations should be determined by the end-user.
	matching antibodies	259 002, 259 003
	Remarks	This control protein consists of the recombinant protein (aa 348-463 of mouse chromogranin A) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of protein needed for efficient

**Data Sheet** 

## TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

blocking depends on the titer and on the affinity of the antibody to the antigen.

Chromogranin A (CgA) and B (CgB) are members of a family of acidic proteins stored and released throughout the neuroendocrine system. The large dense core vesicle associated proteins have multiple functions in neurons and neuroendocrine cells. They are differentially processed in different

Chromogranin A (CgA) is the precursor for the bioactive peptides pancreastatin, vasostatins, catestatin, β-granin and WE-14.