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

**Data Sheet**

**Reconstitution/Storge**
100 µg protein, lyophilized. For reconstitution add 100 µl H₂O 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 blocking depends on the titer and on the affinity of the antibody to the antigen.

---

**Selected General References**

- The functional role of chromogranins in exocytosis.
  - Domínguez N, Estévez-Herrera J, Pardo MR, Pereda D, Machado JD, Borges R

- A distinct trans-Golgi network subcompartment for sorting of synaptic and granule proteins in neurons and neuroendocrine cells.
  - Park JJ, Gondré-Lewis MC, Eiden LE, Loh YP

- 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

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

- The crucial role of chromogranins in storage and exocytosis revealed using chromaffin cells from chromogranin A null mouse.

- Chromogranin A, an “on/off” switch controlling dense-core secretory granule biogenesis.
  - Kim T, Tso-Cheng JH, Eiden LE, Loh YP

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

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

- 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 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

---

**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 tissues.

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