

ELISA.

TUMOR MARKER

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CHROMOGRANIN A ELISA EN 2017 VOI





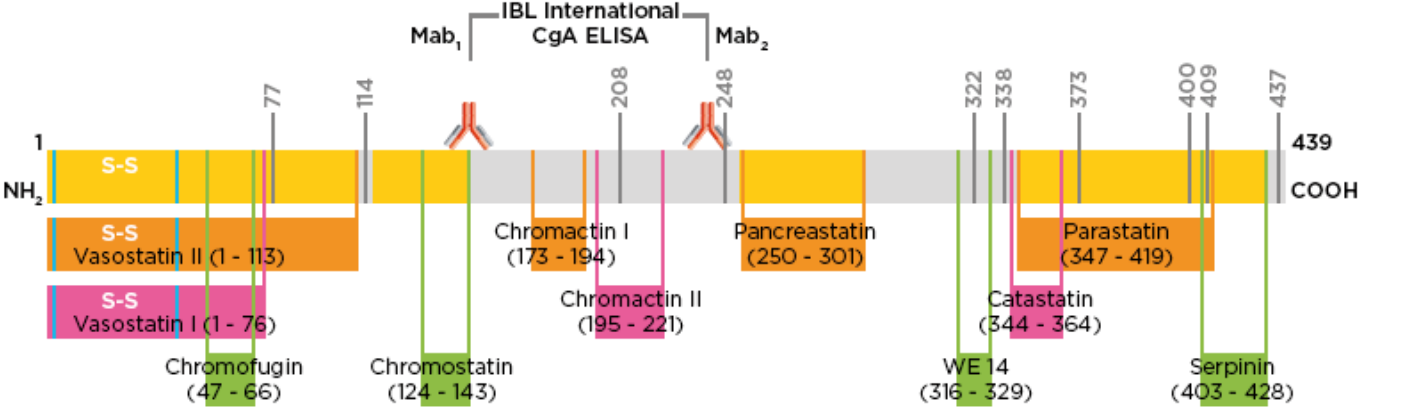
The new Chromogranin A ELISA shows high specificity and sensitivity for the different neuroendocrine tumors (NET) due to monoclonal antibodies directed against the central part of molecule, which corresponds to the unprocessed central domain.

CHROMOGRANIN A ORIGIN AND METABOLISM

Chromogranin A (CgA) is thought to act as a pro-hormone. Its proteolysis is a key component of its physiology. This degradation releases biologically active peptides (vasostatins, chromostatin, pancreastatin, parastatin), which possess different paracrine and autocrine functions. These peptides are not specific to NET-patients.

This proteolysis is tissue-specific and fragmentation of the protein is different depending on its location. It primarily takes place in the cell, inside chromaffin granules. In immunohistochemistry, the presence of CgA in tumor cells is suggestive of a neuroendocrine origin of the tumor.

Human CgA molecule sequence



Normal values measured with the Chromogranin A ELISA (30126469)
Circulating CgA exists in healthy subjects and the values obtained are independent of age and gender. Apparently healthy 114 subjects tested in the Chromogranin A ELISA showed serum values between 27 and 94 ng/mL, with a median of 44 ng/mL (95% percentiles).

Clinical importance
Chromogranin A represents the best available biomarker for diagnosis of neuroendocrine tumors (NETs) with clinical prognostic relevance, like for pheochromocytoma and carcinoids tumors. Furthermore CgA can be also elevated in small-cell lung carcinomas (SCLC), ectopic Cushing's syndrome, and be a useful marker in prostate cancer diagnostic.

PRODUCTS

30126469
Chromogranin A ELISA

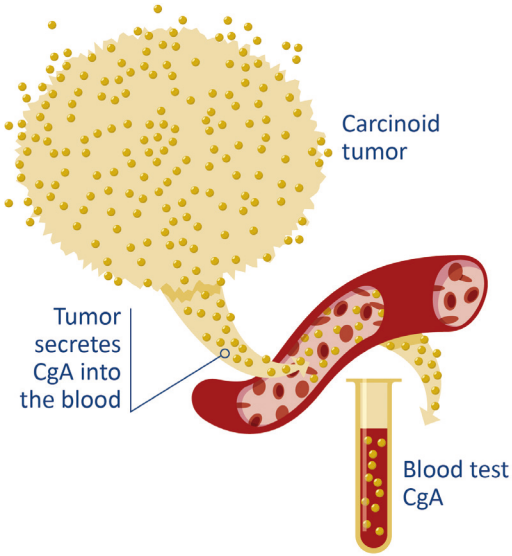
RELATED PRODUCTS

RE59395
TriCat (Adrenalin, Noradrenalin, Dopamine) ELISA

RE59202
MetCombi Plasma ELISA

RE59181
Metanephrine Urine ELISA

RE59171
Normetanephrine Urine ELISA



IBL CHROMOGRANIN A ELISA

The new Chromogranin A ELISA (Ordering Number: 30126469) uses monoclonal antibodies that specifically recognize the central part of the molecule (145--245), which corresponds to the unprocessed central domain. The kit measures intact and fragmented circulating CgA.

- This design is key for**
- High specificity for NET patients
 - Reliable and consistent results: standards based on human recombinant CgA
 - High precision < 10% CV%
 - Excellent correlation to the gold Standard CgA RIA and to the Kryptor assay

Precision

Long incubation protocol (overnight; 1 x 2 h 10 min)

Samples	n	Concentration Mean (ng/mL)	Within-series (CV%)
1	35	24.3	6
2	35	92	5
3	35	374	4
4	35	677	4

Samples	n	Concentration Mean (ng/mL)	Between-series (CV%)
5	13	50.2	10
6	13	119	8
7	13	303	6
8	13	574	5

Short incubation protocol (2 x 2 h 10 min)

Samples	n	Concentration Mean (ng/mL)	Within-series (CV%)
9	35	29.2	5
10	35	94	5
11	35	313	4
12	35	501	6

Samples	n	Concentration Mean (ng/mL)	Between-series (CV%)
13	11	38.0	12
14	9	103	6
15	11	198	6
16	9	460	4

AUTOMATION

The Chromogranin A ELISA can be easily automated on open ELISA systems like the Freedom Evolyzer®. However, the combined use of assays, process script and instrument has to be validated individually on site by each laboratory.