



Rev: A

Release Date: 03/13/2014

IVD

Chromogranin A (EP38)

Clone	EP38
Source	Rabbit Monoclonal
Cat #	PR030-6ml RTU PR030-3ml RTU CR030-0.5ml Concentrated CR030-0.1ml Concentrated
Regulatory Status	IVD

Intended Use:

This antibody is intended for use to qualitatively identify Chromogranin A by light microscopy in formalin fixed, paraffin embedded tissue sections using immunohistochemical detection methodology. Interpretation of any positive or negative staining must be complemented with the evaluation of proper controls and must be made within the context of the patient's clinical history and other diagnostic tests. A qualified pathologist must perform evaluation of the test.

Summary and Explanation:

Chromogranin A (CgA) is an 86 kDa protein that is the major member of the granin family of acidic secretory glycoproteins located in neurosecretory granules of neuroendocrine cells. Chromogranin A showed broad expression in endocrine tissues including pituitary, adrenal medulla, thyroid, pancreatic islets and gastrointestinal tract. Chromogranin A represents the single most specific marker of neuroendocrine differentiation in general use. Antibody to Chromogranin is useful for identification of neuroendocrine tumors.

Immunogen: A synthetic peptide corresponding to residues near the C-terminus of human Chromogranin A protein.

Isotype: Rabbit IgG.

Reagent Provided:

Concentrated format: Antibody to Chromogranin A is affinity purified and diluted in antibody diluent, with 1% bovine serum albumin (BSA) and 0.05% sodium azide (NaN₃). Recommended dilutions: 1:50 – 1:100.

The antibody dilution and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by individual laboratory.

Pre-diluted format: PathnSitu ready to use antibodies are pre titrated to optimal staining conditions. Further dilution may lose the activity and may yield to sub optimal staining.

Storage Recommendations: Store at 2-8 °C. Do not use after expiration date provided on the vial.

Staining Recommendations:

Antigen Retrieval Solution: Use **Citrate Buffer (PathnSitu cat # PS007)** as antigen retrieval solution
Heat Retrieval Method: Retrieve sections under steam pressure for 15 min using PathnSitu's MERS (Multi Epitope Retrieval System) then allow solution to cool for 10 minutes then transfer tissue sections/slides to distilled water.

Primary Antibody: Cover the tissue sections with primary antibody and incubate for 30 min at room temperature when used PathnSitu PolyExcel Detection System.

Detection System: Refer to PathnSitu PolyExcel detection system protocol or manufacturer's detection kit staining protocol when used other vendor detection system.

Cellular Localization: Cytoplasm.

Positive Control: Pancreas or Neuroendocrine.

Troubleshooting: Follow the antibody specific protocol recommendations according to data sheet provided. If unusual results occur, contact PathnSitu Technical Support at 040-2701 5544 or techsupport@pathnsitu.com.

Limitations and Warranty: There are no warranties, expressed or implied, which extend beyond this description. PathnSitu is not liable for property damage, personal injury, or economic loss caused by this product.

Bibliography:

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2. Helman LJ. *The Journal of Clinical Investigation*, Volume 82, August 1988, 686-690
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4. Erickson, L. A. and R. V. Lloyd (2004). "Practical markers used in the diagnosis of endocrine tumors." *Adv Anat Pathol* 11(4): 175-89.
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Chromogranin A, EP38 antibody has been created by Epitomics Inc., using Epitomics' proprietary rabbit monoclonal antibody technology covered under Patent No.'s 5,675,063 and 7,402,409.