



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## Mouse Anti Human Chromogranin A

### With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-01007

**Target Species**  
Human

**Isotype**  
IgG1

### **Description**

**Immunogen:** Human pheochromocytoma tissue

### **Specificity**

DS-MB-01007 recognizes human Chromogranin A and related chromogranin polypeptides. The antibody stains endocrine derived cells containing secretory storage granules. In tumor cells the intensity of staining is proportional to the number of secretory storage granules present. Small cell carcinoma of the lung, Merkel cell carcinomas and neuroblastomas exhibit weak staining, whilst most other endocrine derived tumors stain strongly.

This antibody has been reported to be active in Western blotting procedures, but this format is not recommended for such applications.

**Immunohistology:** This product does not require protein digestion pre-treatment of paraffin sections

**Histology Positive Control Tissue:** Normal Pancreas

**Species Crossreactivity:** Pig, Monkey; Antibody reactivity and working conditions may vary between species.

### **Formulation**

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG – liquid

**Format:** Concentrate

**Buffer Solution:** Phosphate buffered saline

**Preservative & Stabilizers:** 0.09% Sodium Azide, 1% Bovine Serum Albumin

**Fusion Partners:** Spleen cells from an immunized BALB/c mouse were fused with cells of the mouse NSI myeloma cell line.

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Not for diagnostic or therapeutic use.**



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### Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

### Applications

**Table Summary of antibody applications and working conditions**

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Western Blotting			•	
ELISA			•	
IHC - paraffin	•			1/10 - 1/40
IHC - frozen	•			1/10 - 1/40

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

### Secondary Antibody Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

### References

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3. Lloyd, R.V. and Wilson, B.S. (1983) Specific endocrine tissue marker defined by a monoclonal antibody. *Science*. 222: 628-630.
4. Lloyd R.V. *et al.* (1984) Immunohistochemical detection of chromogranin and neuron-specific enolase in pancreatic endocrine neoplasms. *Am. J. Surg. Pathol.* 8: 607-614.
5. Pearse, A.G.E. (1977) The diffuse neuroendocrine system and the APUD concept: Related endocrine peptides in brain, intestine, pituitary, placenta and anuran cutaneous glands. *Med. Biol.* 55: 115-125.
6. Walts, A.E. *et al.* (1985) Chromogranin as a marker of neuroendocrine cells in cytologic material - an immunocytochemical study. *Am. J. Clin. Pathol.* 84: 273-277.
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