Chromogranin A Ab-2 (Clone PHE5)
Mouse Monoclonal Antibody
Cat. #MS-381-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)
Cat. #MS-381-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #MS-381-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)
Cat. #MS-381-PCS (5 Slides) (Positive Control for Histology)

**Description:** Chromogranin A (a protein of 439-amino acid which is encoded on chromosome 14) is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors. Coexpression of chromogranin A and neuron specific enolase (NSE) is common in neuroendocrine neoplasms.

**Mol. Wt. of Antigen:** 68-75kDa

**Species Reactivity:** Human and Monkey. Does not react with rat. Others-not known.

**Clone Designation:** PHE5

**Ig Isotype:** IgG1

**Immunogen:** Human pheochromocytoma.1

**Applications and Suggested Dilutions:**
- Immunofluorescence
- Immunohistology (Ab-3 is better) (Formalin/paraffin) (Ab 0.5-1µg/ml for 30min at RT)
  
  * [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (*NEOMARKERS’ Cat. #AP-9003), for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Pancreas

**Cellular Localization:** Cytoplasmic.

**Storage and Stability:** Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

**Supplied As:** 200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml, or Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

**Key References:**

**Limitations and Warranty:**
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

**Material Safety Data:**
This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

**For Research Use Only**

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Additional Key References:
5. Zamboni G; Franzin G; Bonetti F; Scarpa A; Chilosi M; Colombi R; Menestrina F; Pea M; Iacono C; Serio G; et al. Small-cell neuroendocrine carcinoma of the ampullary region. A clinicopathologic, immunohistochemical, and ultrastructural study of three cases. American Journal of Surgical Pathology, 1990, 14(8):703-13.
8. Mosca L; Barbaretti M; Mauri MF; Munguia-Barrera J; Frigo B; Muscara M; Valentini L; Mariscotti C. Neuroendocrine lung structures and tumours: immunohistochemical study by specific markers. Histology and Histopathology, 1988 Oct, 3(4):367-76.