

Somatostatin Ab-1

Rabbit Polyclonal Antibody

Cat. #RB-038-A0, -A1, or -A (0.1ml, 0.5ml, or 1.0ml)

Cat. #RB-038-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Cat. #RB-038-PCS (5 Slides) (Positive Control for Histology)

Description: The cyclic polypeptide hormone Somatostatin was originally isolated from the hypothalamus and characterized by its ability to inhibit release of growth hormone from the pituitary gland. It exists in two forms, somatostatin-14, composed of 14 amino acids and somatostatin-28, a prohormone composed of 28 residues.

Comments: Ab-1 will label D cells of the endocrine mammalian pancreas and also cells of the hypothalamic parvicellular region. It may prove useful for the identification of tumors and hyperplasias of the pancreatic islets.

Epitope: aa 1-14

Species Reactivity: Human. Others-not known.

Immunogen: Synthetic cyclic (1-14) somatostatin

Applications and Suggested Dilutions:

- Immunohistology (Formalin/paraffin)
(Ab 1:50-1:100 for 30 min 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

Supplied As:

Rabbit anti-serum diluted in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide,

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Storage and Stability: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

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. NeoMarkers makes 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 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.

Suggested References:

1. Alumets J, et al. Cell Tiss Res 1977; 185:465.
2. Walsh J H. Gastrointestinal hormones, in Johnson L R (ed). Physiology of the Gastrointestinal Tract, 2nd ed, New York, Raven Press, 1810253 (1987).
3. Keast J R, et al. Cell Tissue Res. 237: 299-308 (1984).

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.

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