

**Mouse Anti-Somatostatin [H11]: MC0220, MC0220RTU7**

**Intended Use:** For Research Use Only

**Description:** Somatostatin is a peptide hormone that regulates the endocrine system and affects neurotransmission and cell proliferation via interaction with G-protein-coupled somatostatin receptors and inhibition of the release of numerous secondary hormones. This hormone has two active forms produced by alternative cleavage of a single preproprotein: somatostatin-14, composed of 14 amino acids and somatostatin-28, a prohormone composed of 28 residues. Somatostatin is secreted by D-cells of the islets of Langerhans in pancreas, endocrine cells of the gastrointestinal tract, bronchopulmonary system, thymus, and C cells of the thyroid. Somatostatin positive cells may also be present in medullary thyroid carcinomas, C cell hyperplasia, thymic tumors and pulmonary small cell carcinomas. An antibody to Somatostatin can be used to identify pancreatic islet cell hyperplasia as well as islet cell tumors, such as somatostatinomas.

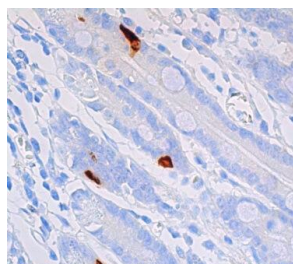
**Specifications**

Clone: H11  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human, mouse, rat  
 Immunogen: Human somatostatin aa 25-116  
 Localization: Cytoplasm  
 Formulation: Tissue culture supernatant in PBS pH7.5, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, ICC/IF, IP, WB  
 Package:

Description	Catalog No.	Size
Somatostatin Concentrated	MC0220	1 ml
Somatostatin Prediluted	MC0220RTU7	7 ml

**IHC Procedure**

Positive Control Tissue: Pancreas, somatostatinomas  
 Concentrated Dilution: 50-200  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE human duodenum tissue stained with anti-Somatostatin using DAB

**References:**

1. Beta Cell Dedifferentiation Induced by IRE1 $\alpha$  Deletion Prevents Type 1 Diabetes. Hugo Lee, et al. Cell Metab. Apr 7;31(4):822-836.e5, 2020.
2. INS-eGFP transgenic pigs: a novel reporter system for studying maturation, growth and vascularisation of neonatal islet-like cell clusters. Elisabeth Kemter, et al. Diabetologia. Jun;60(6):1152-1156, 2017.
3. The somatostatinergic system in the mammalian cochlea. Vesna Radojevic, et al. BMC Neurosci. Sep 6;12:89, 2011.

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Rev. A