

Mouse Anti-INSM1 [A8]: MC0262, MC0262RTU7

Intended Use: For Research Use Only

Description: Insulinoma-associated 1 or INSM1/IA1 is a zinc-finger transcription factor restrictedly expressed in pancreatic β -cells during early pancreas development. INSM1/IA1 regulates NeuroD1/ β 2 and insulin gene expression during β -cell maturation. INSM1 transcription factor, an important player in early embryonic neurogenesis, contributes to endocrine and neuroendocrine cell differentiation. INSM1 is expressed transiently in embryonic neuroendocrine (NE) tissue, thought to coordinate termination of cell division with differentiation of NE and neuroepithelial cells. In adult tissues, INSM1 has been identified in multiple tumors of NE or neuroepithelial origin and might be a potential neoplastic marker.

Specifications

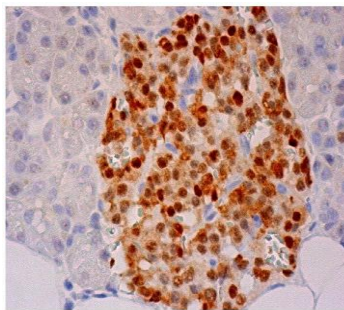
Clone:	A8
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, mouse, rat
Immunogen:	The fragment of human INSM1 N-terminus aa 81-125
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, IF, IP, WB
Package:	

Description	Catalog No.	Size
INSM1 Concentrated	MC0262	1 ml
INSM1 Prediluted	MC0262RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Neuroendocrine tumor, pancreas, fetal lung lysate
Concentrated Dilution:	20-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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 pancreas tissue stained with anti-INSM1 showing nuclear staining of Islets of Langerhans

References:

1. Insulinoma-associated 1: A novel nuclear marker in Merkel cell carcinoma (cutaneous neuroendocrine carcinoma). Rush PS, Rosenbaum JN, et al. J Cutan Pathol. Feb;45(2):129-135, 2018.
2. A new marker, insulinoma-associated protein 1 (INSM1), for high-grade neuroendocrine carcinoma of the uterine cervix: Analysis of 37 cases. Kuji S, Watanabe R, et al. Gynecol Oncol. Feb;144(2):384-390, 2017.
3. Transient expression of the conserved zinc finger gene INSM1 in progenitors and nascent neurons throughout embryonic and adult neurogenesis. Duggan A, et al. J Comp Neurol. Apr 1;507(4):1497-520, 2008.

Doc. 100-MC0262
Rev. B