

Rabbit Anti-INSM1 [MD168R]: RM0020, RM0020RTU7

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

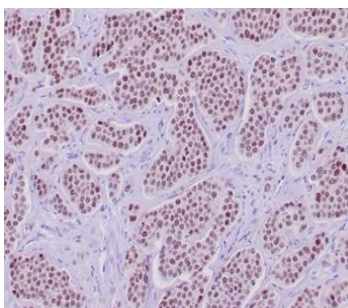
Clone:	MD168R
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Recombinant fragment of human INSM1 N-terminus around aa 81-125
Localization:	Nucleus
Formulation:	Protein A/G Purified antibody in PBS pH7.4, containing BSA and \leq 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC
Package:	

Description	Catalog No.	Size
INSM1 Concentrated	RM0020	1 ml
INSM1 Prediluted	RM0020RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Pancreas, neuroendocrine tumor
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 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 neuroendocrine tumor stained with anti-INSM1 using DAB

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.

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