

**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  $\beta$ -cells during early pancreas development. INSM1/IA1 regulates NeruoD1/ $\beta$ 2 and insulin gene expression during  $\beta$ -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**

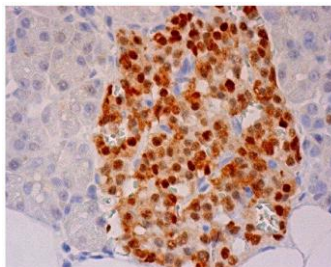
Clone: A8  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human, mouse, rat  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, IF, IP, WB  
 Package:

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

**IHC Procedure\***

Positive Control Tissue: Fetal lung lysate, pancreas  
 Concentrated Dilution: 20-200  
 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 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.
4. Herpes simplex virus induces the marked up-regulation of the zinc finger transcriptional factor INSM1, which modulates the expression and localization of the immediate early protein ICP0. Kamakura M, et al. Virol J 8:257, 2011.

Doc. 100-MC0262  
Rev. A

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