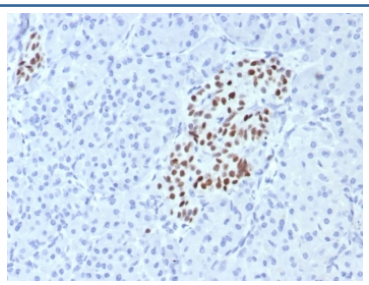
IA1 Antibody INSM1/7992R / Insulinoma Associated Transcription Factor 1 Antibody [clone INSM1/7992R] (V4819)

Catalog No.	Formulation	Size
V4819-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4819-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4819SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	INSM1/7992R
Purity	Protein A/G affinity
UniProt	Q01101
Localization	Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This IA1 Antibody INSM1/7992R / Insulinoma Associated Transcription Factor 1 Antibody is available for research use only.



IA1 Antibody INSM1/7992R Staining in Human Pancreatic Islets by IHC. Immunohistochemistry staining of FFPE human pancreas using IA1 Antibody (clone INSM1/7992R) shows distinct brown nuclear labeling concentrated within pancreatic islet cells, while the surrounding exocrine tissue remains largely negative. HIER was performed by boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 20 min followed by cooling prior to antibody incubation. The sharply nuclear and islet-restricted staining pattern is consistent with INSM1 localization in pancreatic endocrine cells and demonstrates detection using this Insulinoma Associated Transcription Factor 1 Antibody.

Description

IA1 Antibody INSM1/7992R recognizes insulinoma-associated protein 1 (INSM1), a zinc finger transcription factor involved in endocrine and neuroendocrine cell development and differentiation. INSM1 was originally identified through its expression in insulinoma and is also known as IA1 and insulinoma-associated transcription factor 1. The protein functions primarily as a transcriptional regulator, controlling gene expression programs that contribute to neuroendocrine lineage specification and the maturation of hormone-producing cells.

During embryonic development, INSM1 is expressed in progenitor populations that give rise to multiple endocrine and neuronal cell types. It contributes to the differentiation of pancreatic endocrine cells, gastrointestinal neuroendocrine cells, and selected neural lineages. INSM1 is predominantly localized to the nucleus, consistent with its role as a DNA-binding transcription factor. Expression becomes more restricted in many mature tissues, where INSM1 is associated primarily with specialized endocrine and neuroendocrine cell populations.

INSM1 expression is widely investigated in neuroendocrine tumor biology. The protein is associated with numerous neoplasms exhibiting neuroendocrine differentiation, including small cell lung carcinoma, pulmonary neuroendocrine tumors, Merkel cell carcinoma, pancreatic neuroendocrine tumors, and other neuroendocrine neoplasms. Its lineage-associated expression makes INSM1 useful for research into neuroendocrine differentiation and the transcriptional programs retained by these tumors.

Clone INSM1/7992R is a recombinant rabbit monoclonal antibody generated against a recombinant region within amino acids 1-300 of human INSM1. This Insulinoma Associated Transcription Factor 1 Antibody provides a defined monoclonal reagent for investigating INSM1 expression, endocrine cell differentiation, and neuroendocrine tumor biology. NSJ Bioreagents supplies clone INSM1/7992R for research use only.

An IA1 Antibody can be used to investigate neuroendocrine differentiation, endocrine cell development, transcriptional regulation, and the molecular biology of neuroendocrine tumors.

For broader neuroendocrine tumor IHC validation, see our INSM1 Antibody INSM1/6286R / IA-1 Antibody page.

Application Notes

Optimal dilution of the IA1 Antibody INSM1/7992R / Insulinoma Associated Transcription Factor 1 Antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-300) from the human protein was used as the immunogen for the IA1 Antibody INSM1/7992R.

Storage

Aliquot the IA1 Antibody INSM1/7992R and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

INSM1 antibody, Insulinoma-associated 1 antibody, Zinc finger protein INSM1 antibody, Insulinoma-associated transcription factor 1 antibody

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