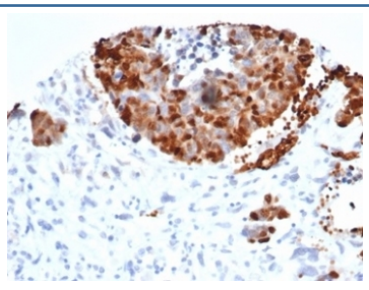
INSM1 Antibody INSM1/6286R / IA-1 Monoclonal Antibody [clone INSM1/6286R] (V9370)

Catalog No.	Formulation	Size
V9370-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9370-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9370SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

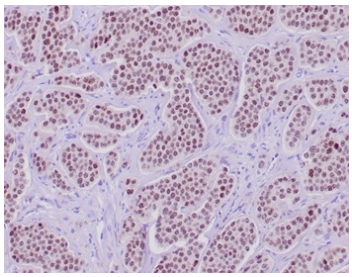
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	INSM1/6286R
Purity	Protein A/G affinity
UniProt	Q01101
Localization	Nuclear
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This INSM1 Antibody INSM1/6286R / IA-1 Monoclonal Antibody is available for research use only.



INSM1 Antibody INSM1/6286R Staining in Human Bladder Carcinoma by IHC. Immunohistochemistry staining of FFPE human bladder carcinoma using INSM1 Antibody (clone INSM1/6286R) shows strong brown nuclear labeling in a distinct population of tumor cells, with surrounding stromal and non-neoplastic cells showing minimal staining. 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 staining pattern is consistent with INSM1 localization and highlights neuroendocrine differentiation within the carcinoma using this IA-1 Monoclonal Antibody.



INSM1 Antibody INSM1/6286R Staining in Human Neuroendocrine Tumor by IHC. Immunohistochemistry staining of FFPE human neuroendocrine tumor using INSM1 Antibody (clone INSM1/6286R) shows widespread brown nuclear labeling throughout the neoplastic cell population, with individual positive nuclei clearly delineated. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. The predominantly nuclear staining pattern is consistent with the localization of INSM1 as a neuroendocrine transcription factor and demonstrates detection in neuroendocrine tumor tissue using this IA-1 Monoclonal Antibody.

Description

INSM1 Antibody INSM1/6286R recognizes insulinoma-associated protein 1 (INSM1), a zinc finger transcription factor involved in the development and differentiation of endocrine and neuroendocrine cells. INSM1 was originally identified through its expression in insulinoma and is also known as IA-1. The protein functions primarily as a transcriptional regulator and contributes to gene expression programs involved in neuroendocrine lineage specification, cellular differentiation, and hormone-producing cell maturation.

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 neural lineages. INSM1 is predominantly localized to the nucleus, consistent with its function as a DNA-binding transcription factor. Its expression becomes more restricted in many mature tissues, where it is associated primarily with specialized endocrine and neuroendocrine cell populations.

INSM1 has become an important marker in neuroendocrine tumor research because its expression is retained in numerous neoplasms exhibiting neuroendocrine differentiation. These include small cell lung carcinoma, pulmonary neuroendocrine tumors, Merkel cell carcinoma, pancreatic neuroendocrine tumors, and other neuroendocrine neoplasms. Investigation of INSM1 can therefore provide information about neuroendocrine lineage identity while also supporting studies of the transcriptional mechanisms involved in tumor development and differentiation.

Clone INSM1/6286R is a recombinant rabbit monoclonal antibody generated against a region within amino acids 81-125 of human INSM1. This IA-1 Monoclonal Antibody provides a defined monoclonal reagent for investigating the nuclear transcription factor and its association with endocrine and neuroendocrine differentiation. NSJ Bioreagents supplies clone INSM1/6286R for research use only.

An INSM1 Antibody can be used to investigate neuroendocrine differentiation, endocrine cell development, transcriptional regulation, and the biology of neuroendocrine tumors.

Explore our Cancer Marker Antibodies page for additional antibodies targeting proteins associated with tumor classification, differentiation, and cancer biology.

Application Notes

Optimal dilution of the INSM1 Antibody INSM1/6286R / IA-1 Monoclonal Antibody should be determined by the researcher.

Immunogen

A portion of amino acids 81-125 was used as the immunogen for the recombinant INSM1 Antibody INSM1/6286R.

Storage

Aliquot the INSM1 Antibody INSM1/6286R and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

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

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