

INSM1 (INSM1/8149R)

Format	Catalog No.	Pack size	Dilution
Concentrated	G3642 A, B, C	0.1, 0.5, 1.0 mL	1:100-200
Prediluted	G3642 AA, BB	6.0, 3.0 mL	Ready to use

SPECIES: Rabbit

IMMUNOGEN: Recombinant fragment (around aa1-300) corresponding to the N-terminus of human INSM1

CLONE: INSM1/8149R

ISOTYPE: IgG/Kappa

FORMAT: This antibody has been pre-titrated and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.

SPECIES REACTIVITY : Human

POSITIVE CONTROL : Human pancreas or neuroendocrine tumor.

CELLULAR LOCALIZATION : Nucleus

INTENDED USE: For Research Use Only(RUO).

BACKGROUND: One zinc-finger transcription factor that is developmentally regulated is insulinoma-associated protein 1 (INSM1). It is expressed in embryonic problems going through neuroendocrine differentiation and localises to the nucleus. Normal adult tissues do not express INSM1, however neuroendocrine tumours do express it in high levels. When compared to 75% and 78% of cases using the combined panel of conventional neuroendocrine markers (synaptophysin, chromogranin, and CD56), INSM1 is positive in 95% of lung small cell carcinoma and 91% of lung large cell neuroendocrine carcinoma. Only 3% of adenocarcinomas and 4% of squamous cell carcinomas are stained by INSM1, however 100% of paragangliomas, typical carcinoids, and atypical carcinoids are. As a result, INSM1 is a single first-line pan-neuroendocrine marker that is both sensitive and specific.

MICROBIOLOGICAL STATE : Non-sterile product; store according to recommended guidelines.

RECOMMENDED USAGE:

- **Immunohistochemistry (IHC):** 1–2 µg/ml
 - Requires Tris-EDTA (pH 9.0) antigen retrieval at 95°C for 45 min, followed by cooling for 20 min at RT
- **Immunofluorescence (IF):** 1–3 µg/ml
- **Storage Conditions:** 1–3 µg/ml
 - With azide: 2–8°C
 - Without azide: –20 to –80°C



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- **Stability:** 24 months

LIMITATIONS AND USES:

1. Contains 0.05% sodium azide – handle with care
2. Avoid skin and mucosal contact
3. Not intended for diagnostic or therapeutic use

STABILITY AND STORAGE –

Avoid freezing. Keep between 2 and 8°C. After use, immediately return to 2–8°C. Never use after the label's stated expiration date. Before using the antibody, visually confirm that it hasn't been contaminated. If the reagent precipitates or gets hazy, do not use it.

RESTRICTIONS–

Histological and immunological detection techniques are both used in the intricate process of immunohistochemistry. Results from tissue handling and processing before immunostaining can vary. Results may differ depending on the intrinsic characteristics of the tissue samples or on differences in fixation and embedding. Depending on the detection method employed, endogenous biotin and endogenous peroxidase or pseudoperoxidase activity in erythrocytes may result in non-specific staining. The methods and suggestions in this data sheet were verified with Genebio IHC reagents and might not work with other detection systems.

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com



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