

Rabbit Anti-Islet 1 [EP283]: RM0378

Intended Use: For Research Use Only

Description: The Islet 1 is a transcription factor encoded by ISL-1 gene in the LIM-homeodomain subfamily. It is involved in the embryogenesis and differentiation of beta cells within the islets of Langerhans and crucial for pancreatic and motor neuron development. Islet 1 represents a differentiation marker expressed in the pancreas within normal islet cells and has been proposed as a marker for pancreatic neuroendocrine tumors. Islet 1 is a sensitive lineage-specific marker for pancreatic neuroendocrine neoplasms and their metastases. Sensitivity ranges from 69-90% for primary pancreatic neoplasms, and 67-76% for metastatic neoplasms. Islet 1 has also been reported in duodenal, colonic and rectal neuroendocrine neoplasms. Due to the difficulty in distinguishing the primary site from metastatic neuroendocrine tumors with histological features, addition of Islet 1 staining to a panel of immunohistochemistry markers (PAX8, TTF1, and CDX2) identified the correct primary site in 75% of metastatic cases, demonstrating significant improvement over the three antibody panel (67%). Addition of Islet 1 to an immunohistochemical panel would be a useful adjunct to determine the site of origin in metastatic neuroendocrine tumor of unknown primary.

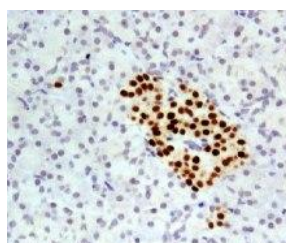
Specifications

Clone: EP283
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Cytoplasm, nucleus
 Formulation: Antibody in PBS pH7.5, containing 0.2% BSA and <0.1% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
Islet 1 Concentrated	RM0378	1 ml

IHC Procedure

Positive Control: Pancreas, pancreatic neuroendocrine tumor
 Concentrated Dilution: 50-200
 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-Islet 1 using DAB

References:

1. Immunohistochemical analysis of the relationship between islet cell proliferation and the production of the enteroviral capsid protein, VP1, in the islets of patients with recent-onset type 1 diabetes. Willcox A, et al. Diabetologia. Sep;54(9):2417-20, 2011.
2. Islet neogenesis-associated protein-related pentadecapeptide enhances the differentiation of islet-like clusters from human pancreatic duct cells. Li J, et al. Peptides. Dec;30(12):2242-9, 2009.

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