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SSTR 2

Rabbit Monoclonal antibody(Mab)
Catalog # AD80506

Product Information

Application	IHC-P
Primary Accession	P30874
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Clone Names	572G2C6
Calculated MW	41333

Additional Information

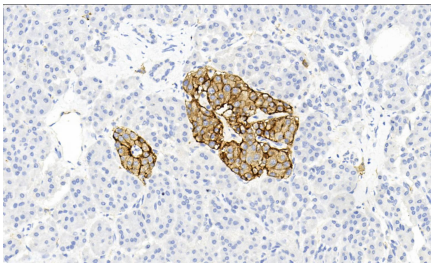
Gene ID	6752
Gene Name	SDHB
Other Names	Somatostatin receptor type 2, SS-2-R, SS2-R, SS2R, SST2, SRIF-1, SSTR2
Dilution	IHC-P~~Ready-to-use
Storage	Maintain refrigerated at 2-8°C.
Precautions	SDHB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SSTR2
Function	Receptor for somatostatin-14 and -28. This receptor is coupled via pertussis toxin sensitive G proteins to inhibition of adenylyl cyclase. In addition it stimulates phosphotyrosine phosphatase and PLC via pertussis toxin insensitive as well as sensitive G proteins. Inhibits calcium entry by suppressing voltage-dependent calcium channels. Acts as the functionally dominant somatostatin receptor in pancreatic alpha- and beta-cells where it mediates the inhibitory effect of somatostatin-14 on hormone secretion. Inhibits cell growth through enhancement of MAPK1 and MAPK2 phosphorylation and subsequent up-regulation of CDKN1B. Stimulates neuronal migration and axon outgrowth and may participate in neuron development and maturation during brain development. Mediates negative regulation of insulin receptor signaling through PTPN6. Inactivates SSTR3 receptor function following heterodimerization.
Cellular Location	Cell membrane; Multi-pass membrane protein. Cytoplasm. Note=Located mainly at the cell surface under basal conditions. Agonist stimulation results in internalization to the cytoplasm
Tissue Location	Expressed in both pancreatic alpha- and beta-cells (at protein level).

Expressed at higher levels in the pancreas than other somatostatin receptors. Also expressed in the cerebrum and kidney and, in lesser amounts, in the jejunum, colon and liver. In the developing nervous system, expressed in the cortex where it is located in the preplate at early stages and is enriched in the outer part of the germinal zone at later stages. In the cerebellum, expressed in the deep part of the external granular layer at gestational week 19. This pattern persists until birth but disappears at adulthood

Images



Immunohistochemical analysis of formalin-fixed and paraffin-embedded human pancreas tissue was performed with SSTR 2 primary antibody, followed by peroxidase-conjugated secondary antibody and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.