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REG1A Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1293a

Product Information

Application	IHC, ICC, E
Primary Accession	P05451
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1A4
Isotype	IgG1
Calculated MW	18731
Description	REG1A (regenerating islet-derived 1 alpha), also known as PTP, PSP, is a member of the Reg family of secreted proteins with a C-type lectin domain. REG1A is associated with islet cell regeneration and diabetogenesis and may be involved in pancreatic lithogenesis.Due to variable glycosylation, pancreatic REG1A exists as multiple species of 16 - 18 kDa. REG1A promotes the maintenance and growth of pancreatic islet β-cells and intestinal villi. It is upregulated in pancreatitis and some carcinomas. REG1A is an antigenic target in autoimmune diabetes.
Immunogen	Purified recombinant fragment of human REG1A fused with hIgGFc tag expressed in HEK293 cell line.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	5967
Other Names	Lithostathine-1-alpha, Islet cells regeneration factor, ICRF, Islet of Langerhans regenerating protein, REG, Pancreatic stone protein, PSP, Pancreatic thread protein, PTP, Regenerating islet-derived protein 1-alpha, REG-1-alpha, Regenerating protein I alpha, REG1A, PSPS, PSPS1, REG
Dilution	IHC~~1/200 - 1/1000 ICC~~N/A E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	REG1A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	REG1A
Synonyms	PSPS, PSPS1, REG
Function	Might act as an inhibitor of spontaneous calcium carbonate precipitation. May be associated with neuronal sprouting in brain, and with brain and pancreas regeneration.
Cellular Location	Secreted.
Tissue Location	In pancreatic acinar cells and, in lower levels, in brain. Enhanced expression of PSP-related transcripts and intraneuronal accumulation of PSP-like proteins is found in brain from Alzheimer disease and Down syndrome patients.

References

1. Pancreas. 2004 Jul;29(1):14-21. 2. Int J Cancer. 2008 Jul 15;123(2):409-13.

Images

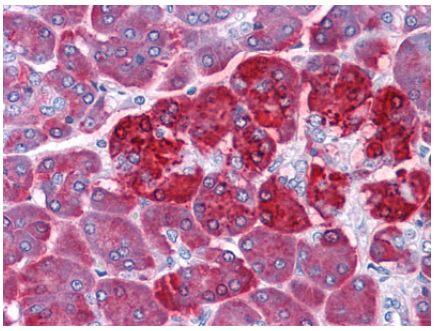


Figure 1: Immunohistochemical analysis of paraffin-embedded human Pancreas tissues using REG1A mouse mAb

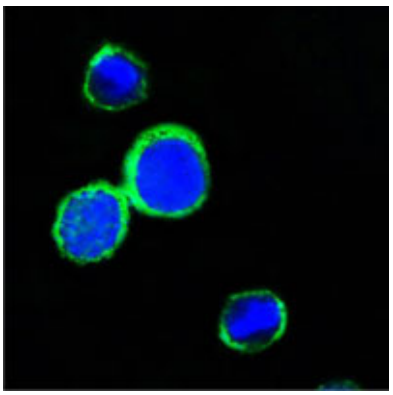


Figure 2: Confocal immunofluorescence analysis of PC12 cells using REG1A mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

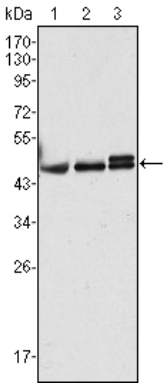


Figure 1: Western blot analysis using CK17 mouse mAb against Hela (1), MCF-7 (2) and A431 (3) cell lysate.

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