

# Immunotag™ Reg Iα Monoclonal Antibody

Antibody Specification	
Catalog No.	ITM0555
Product Description	Immunotag™ Reg Iα Monoclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Reg Iα
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	IHC-p,IF,ELISA
Recommended Dilution	Immunohistochemistry: 1/200 - 1/1000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Mouse
Immunogen	Purified recombinant fragment of human Reg Iα fused with hIgGFc tag expressed in HEK293 cell line.
Specificity	Reg Iα Monoclonal Antibody detects endogenous levels of Reg Iα protein.
Purification	Affinity purification
Form	Ascitic fluid containing 0.03% sodium azide.
Gene Name	REG1A
Accession No.	P05451
Alternate Names	REG1A; PSPS; PSPS1; REG; 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;

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Description	regenerating family member 1 alpha(REG1A) Homo sapiens This gene is a type I subclass member of the Reg gene family. The Reg gene family is a multigene family grouped into four subclasses, types I, II, III and IV, based on the primary structures of the encoded proteins. This gene encodes a protein that is secreted by the exocrine pancreas. It is associated with islet cell regeneration and diabetogenesis and may be involved in pancreatic lithogenesis. Reg family members REG1B, REGL, PAP and this gene are tandemly clustered on chromosome 2p12 and may have arisen from the same ancestral gene by gene duplication. [provided by RefSeq, Jul 2008],
Protein Expression	Pancreas,PCR rescued clones,Small intestine,
Subcellular Localization	extracellular exosome,
Protein Function	caution:The composition of the O-linked carbohydrate on Thr-27 is complex and varied. In the crystallographic structure, the attached sugar appears to be N-acetylglucosamine, typical of an intracellular protein, rather than N-acetylgalactosamine.,developmental stage:High expression levels in fetal and infant brains; much lower in adult brains.,disease:Alzheimer disease and Down syndrome patients show enhanced expression of PSP-related transcripts and intraneuronal accumulation of PSP-like proteins in their brains.,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.,online information:Lithostathine A,similarity:Contains 1 C-type lectin domain.,tissue specificity:In pancreatic acinar cells and, in lower levels, in brain.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.