

ARG82390 Human REG1 alpha ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82390-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82390-002	Standard	2 X 10 ng/vial	4°C
ARG82390-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82390-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82390-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82390-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82390-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82390-008	25X Wash buffer	20 ml	4°C
ARG82390-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82390-010	STOP solution	10 ml (Ready to use)	4°C
ARG82390-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82390 Human REG1 alpha ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human REG1 alpha in serum, plasma (heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	REG1 alpha
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (heparin) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.8% Inter-Assay CV: 6.3%

Alternate Names	Islet cells regeneration factor; Regenerating protein I alpha; Lithostathine-1-alpha; Islet of Langerhans regenerating protein; PPS1; ICRF; REG-1-alpha; Regenerating islet-derived protein 1-alpha; P19; PSP; Pancreatic thread protein; PPS; REG; Pancreatic stone protein; PTP
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Application Instructions

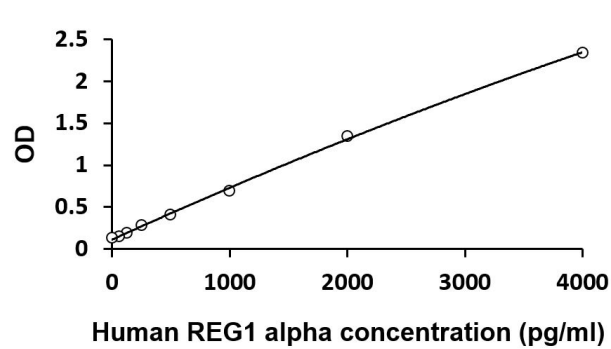
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	REG1A
Gene Full Name	regenerating islet-derived 1 alpha
Background	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]
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. [UniProt]
Highlight	Related products: REG1 alpha antibodies ; REG1 alpha ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	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. [UniProt]
Cellular Localization	Secreted. [UniProt]



ARG82390 Human REG1 alpha ELISA Kit standard curve image

ARG82390 Human REG1 alpha ELISA Kit results of a typical standard run with optical density reading at 450 nm.