

Human Regenerating Islet Derived Protein 3 Alpha ELISA Kit | REG3alpha elisa kit

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CATALOG #
AAA101340

REACTIVITY
Human

PRODUCT SYNONYMS

Regenerating Islet Derived Protein 3 Alpha; Human Regenerating Islet Derived Protein 3 Alpha ELISA Kit; REG3alpha (Regenerating Islet Derived Protein 3 Alpha)/Lithostathine 3/PAP2/REG3A/hepatocarcinoma-intestine-pancreas/HIPpancreatitis-associated protein/Human proislet peptide/pancreatic beta cell growth factor/Pancreatitis-associated protein 1/PAP homologous protein/PAPPAP-H/PBCGF/proliferation-inducing protein 34/proliferation-inducing protein 42/Reg III-alpha/REG3/REG-3-alpha/REG-III; REG3alpha elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Reg3b. No significant cross-reactivity or interference between Reg3b and analogues was observed.
Sequence Length	175
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	15.625-1000pg/ml
Sensitivity	9.375pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Reg3b were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Reg3b were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a REG3α ELISA KIT are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	15.625	31.25	62.5	125	250	500	1000
Y	OD450	0.121	0.212	0.248	0.305	0.487	0.739	1.258	2.267

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for REG3alpha elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Reg3b antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Reg3b antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Reg3b amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Reg3b can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505605
NCBI GeneID	5068
NCBI Accession #	NP_002571.1
NCBI GenBank Nucleotide #	NM_002580.2
Molecular Weight	19,395 Da
NCBI Official Full Name	regenerating islet-derived protein 3-alpha
NCBI Official Synonym Full Names	regenerating family member 3 alpha
NCBI Official Symbol	REG3A
NCBI Official Synonym Symbols	HIP; PAP; PAP1; REG3; INGAP; PAP-H; PBCGF; HIP/PAP; REG-III
NCBI Protein Information	regenerating islet-derived protein 3-alpha
UniProt Protein Name	Regenerating islet-derived protein 3-alpha
UniProt Gene Name	REG3A
UniProt Synonym Gene Names	HIP; PAP; PAP1; REG-3-alpha; HIP/PAP; Reg III-alpha
UniProt Entry Name	REG3A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/reg3alpha-human-elisa-kits/regenerating-islet-derived-protein-3-alpha/101340>