

Regenerating islet-derived protein 3-beta ELISA Kit | Reg3b elisa kit

Rat Regenerating islet-derived protein 3-beta ELISA Kit

CATALOG #
AAA100125

REACTIVITY
Rat

PRODUCT SYNONYMS

Regenerating islet-derived protein 3-beta; Rat Regenerating islet-derived protein 3-beta ELISA Kit; Reg3b/Reg3b/HIP; PAP1; Pap; REG-III; Reg3b elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of REG1alpha. No significant cross-reactivity or interference between REG1alpha and analogues was observed.
Sequence Length	180
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level REG1alpha 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 REG1alpha 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 Reg3b 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	ng/ml	0	0.156	0.312	0.625	1.25	2.5	5	10
Y	OD450	0.120	0.614	0.983	1.255	1.662	1.937	2.155	2.410

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Reg3b elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-REG1alpha antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-REG1alpha 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 REG1alpha amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of REG1alpha can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16757982
NCBI GeneID	24618
NCBI Accession #	NP_445741.1
NCBI GenBank Nucleotide #	NM_053289.1
Molecular Weight	19,617 Da
NCBI Official Full Name	regenerating islet-derived protein 3-beta
NCBI Official Synonym Full Names	regenerating islet-derived 3 beta
NCBI Official Symbol	Reg3b
NCBI Official Synonym Symbols	Pap; Pap1
NCBI Protein Information	regenerating islet-derived protein 3-beta
UniProt Protein Name	Regenerating islet-derived protein 3-beta
UniProt Gene Name	Reg3b
UniProt Synonym Gene Names	Pap; Pap1; Reg2; REG-3-beta; Reg III-beta
UniProt Entry Name	REG3B_RAT

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/reg3b-rat-elisa-kits/regenerating-islet-derived-protein-3-beta/100125>