

Human Regenerating Islet-Derived Protein 3-gamma (REG3G) ELISA Kit | REG3G elisa kit

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CATALOG #
AAA331010

REACTIVITY
Human

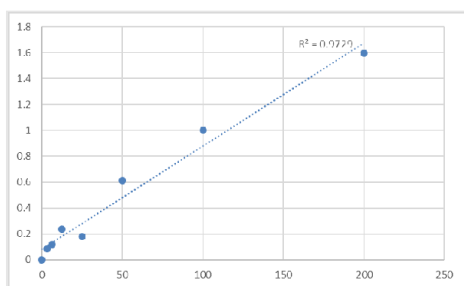
PRODUCT SYNONYMS

Regenerating Islet-Derived Protein 3-gamma (REG3G); Human Regenerating Islet-Derived Protein 3-gamma (REG3G) ELISA Kit; REG3G; MGC118998; MGC118999; MGC119001; PAP1B; PAPIB; REG-III; UNQ429; LPPM429; PAP IB protein; regenerating genel; REG3G elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Regenerating islet-derived protein 3-gamma (REG3G) ELISA Kit has high sensitivity and excellent specificity for detection of Human REG3G. No significant cross-reactivity or interference between Human REG3G and analogues was observed.
Sequence Length	175
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Regenerating islet-derived protein 3-gamma (REG3G) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for REG3G elisa kit	Description: This Human Regenerating islet-derived protein 3-gamma (REG3G) ELISA Kit employs a two-site sandwich ELISA to quantitate REG3G in samples. An antibody specific for REG3G has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any REG3G present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for REG3G is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of REG3G bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: REG3G encodes a deduced 175-amino acid protein, with a predicted molecular mass of 16.5 kD after cleavage of a putative 26-amino acid N-terminal signal peptide. Two REG3G splice forms, with identical coding sequences but different 5-prime UTRs, were identified. The REG3G and REG3A proteins share 85% sequence homology. Northern blot analysis and RT-PCR experiments showed that REG3G is strongly expressed in pancreas, moderately in testis, and weakly in heart, kidney, and placenta. Further RT-PCR analysis of pancreas-derived cell lines showed that REG3G expression is limited to exocrine pancreas. Using 3-dimensional protein structural modeling, they showed that although REG3G and REG1A share similar structural features, they display distinctive surface charge distributions.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	56699413
NCBI GeneID	130120
NCBI Accession #	NP_001008388.1
NCBI GenBank Nucleotide #	NP_001008388.1
UniProt Accession #	Q6UW15
NCBI Official Full Name	regenerating islet-derived protein 3-gamma isoform 1 preproprotein
NCBI Official Synonym Full Names	regenerating family member 3 gamma
NCBI Official Symbol	REG3G
NCBI Official Synonym Symbols	PAP1B; PAPIB; PAP IB; PAP-1B; UNQ429; LPPM429; REG III; REG-III
NCBI Protein Information	regenerating islet-derived protein 3-gamma
UniProt Protein Name	Regenerating islet-derived protein 3-gamma
UniProt Gene Name	REG3G
UniProt Synonym Gene Names	PAP1B; REG-3-gamma; PAP-1B; PAP IB; REG III
UniProt Entry Name	REG3G_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.