

Human Regenerating Gene 4 (REG-4) ELISA Kit | REG-4 elisa kit

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CATALOG #
AAA331009

REACTIVITY
Human

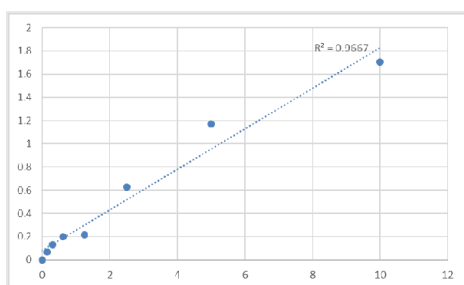
PRODUCT SYNONYMS

Regenerating Gene 4 (REG-4); Human Regenerating Gene 4 (REG-4) ELISA Kit; REG4; GISP; REG-IV; RELP; OTTHUMP00000014031; gastrointestinal secretory protein; regenerating gene type IV; REG-4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Regenerating gene 4 (REG-4) ELISA Kit has high sensitivity and excellent specificity for detection of Human REG4. No significant cross-reactivity or interference between Human REG4 and analogues was observed.
Sequence Length	134
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 gene 4 (REG-4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for REG-4 elisa kit	Description: This Human Regenerating gene 4 (REG-4) ELISA Kit employs a two-site sandwich ELISA to quantitate REG4 in samples. An antibody specific for REG4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any REG4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for REG4 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 REG4 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The REG4 gene encodes a deduced 158-amino acid protein with an N-terminal signal peptide of 22 amino acids and a predicted molecular mass of 18.2 kD. REG4 maintains conservation of the 6 cysteine residues present in other known members of the REG family. By Northern blot analysis of intestinal mucosa from 12 individuals with inflammatory bowel disease, Hartupée et al. (2001) identified a 1.1-kb REG4 transcript in all samples. Control specimens had low but detectable expression of REG4. REG4 expression was significantly upregulated by inflammation and tissue injury associated with active Crohn disease and ulcerative colitis. RNA dot-blot analysis showed that most of the tissues expressing REG4 are in the gastrointestinal tract, i.e., colon, small intestine, stomach, and pancreas.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	226823235
NCBI GeneID	83998
NCBI Accession #	NP_001152825.1
NCBI GenBank Nucleotide #	NP_001152825.1
UniProt Accession #	Q9BYZ8
NCBI Official Full Name	regenerating islet-derived protein 4 isoform 2
NCBI Official Synonym Full Names	regenerating family member 4
NCBI Official Symbol	REG4
NCBI Official Synonym Symbols	GISP; RELP; REG-IV
NCBI Protein Information	regenerating islet-derived protein 4
UniProt Protein Name	Regenerating islet-derived protein 4
UniProt Gene Name	REG4
UniProt Synonym Gene Names	GISP; RELP; REG-4; Reg IV
UniProt Entry Name	REG4_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.