

Human Prostaglandin Reductase 1 (PTGR1) ELISA Kit | PTGR1 elisa kit

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CATALOG #
AAA331249

REACTIVITY
Human

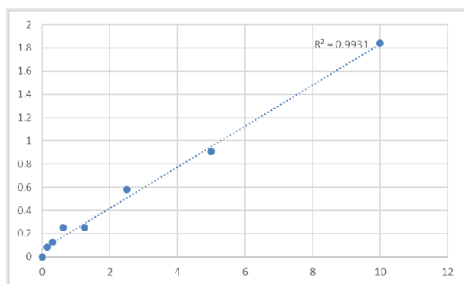
PRODUCT SYNONYMS

Prostaglandin Reductase 1 (PTGR1); Human Prostaglandin Reductase 1 (PTGR1) ELISA Kit; PTGR1; RP11-16L21.1; FLJ99229; LTB4DH; MGC34943; PGR1; ZADH3; 15-oxoprostaglandin 13-reductase; NADP-dependent leukotriene B4 12-hydroxydehydrogenase; leukotriene B4 12-hydroxydehydrogenase; zinc binding alco; PTGR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Prostaglandin reductase 1 (PTGR1) ELISA Kit has high sensitivity and excellent specificity for detection of Human PTGR1. No significant cross-reactivity or interference between Human PTGR1 and analogues was observed.
Sequence Length	329
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 Prostaglandin reductase 1 (PTGR1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PTGR1 elisa kit	Description: This Human Prostaglandin reductase 1 (PTGR1) ELISA Kit employs a two-site sandwich ELISA to quantitate PTGR1 in samples. An antibody specific for PTGR1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PTGR1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTGR1 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 PTGR1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: PTGR1 is an enzyme that is involved in the inactivation of the chemotactic factor, leukotriene B4. The encoded protein specifically catalyzes the NADP+ dependent conversion of leukotriene B4 to 12-oxo-leukotriene B4. A pseudogene of this gene is found on chromosome 1. Alternative splicing results in multiple transcript variants. Leukotriene B(4) 12-hydroxydehydrogenase catalyzes the conversion of leukotriene B(4) into 12-oxo-leukotriene B(4), its less-active metabolite. The identity between the porcine and human sequences they obtained is 83.5% at the amino acid level and 84.7% at the nucleotide level. Both enzymes are highly homologous with a protein, AdRab-F, expressed only in adult rabbit small intestine
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NCBI AND UNIPROT INFORMATION

NCBI GI #	226059159
NCBI GeneID	22949
NCBI Accession #	NP_001139580.1
NCBI GenBank Nucleotide #	NP_001139580.1
UniProt Accession #	Q14914
NCBI Official Full Name	prostaglandin reductase 1 isoform 1
NCBI Official Synonym Full Names	prostaglandin reductase 1
NCBI Official Symbol	PTGR1
NCBI Official Synonym Symbols	PGR1; ZADH3; LTB4DH
NCBI Protein Information	prostaglandin reductase 1
UniProt Protein Name	Prostaglandin reductase 1
UniProt Gene Name	PTGR1
UniProt Synonym Gene Names	LTB4DH; PRG-1
UniProt Entry Name	PTGR1_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/human-elisa-kits/prostaglandin-reductase-1-ptgr1/331249>