

Human Prostaglandin E Synthase (PTGES) ELISA Kit | PTGES elisa kit

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CATALOG #
AAA331253

REACTIVITY
Human

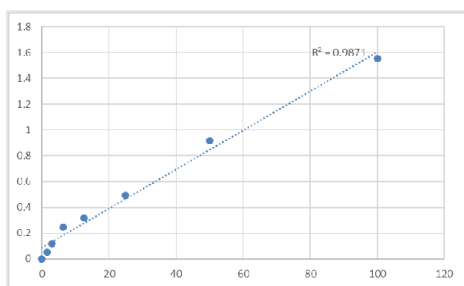
PRODUCT SYNONYMS

Prostaglandin E Synthase (PTGES); Human Prostaglandin E Synthase (PTGES) ELISA Kit; PTGES; MGC10317; MGST-IV; MGST1-L1; MGST1L1; MPGES; PGES; PIG12; PP102; PP1294; TP53112; mPGES-1; MGST1-like 1; glutathione S-transferase 1-like 1; microsomal glutathione S-transferase 1-like 1; microsomal pr; PTGES elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Prostaglandin E synthase (PTGES) ELISA Kit has high sensitivity and excellent specificity for detection of Human PTGES. No significant cross-reactivity or interference between Human PTGES and analogues was observed.
Sequence Length	152
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 E synthase (PTGES) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PTGES elisa kit	Description: This Human Prostaglandin E synthase (PTGES) ELISA Kit employs a two-site sandwich ELISA to quantitate PTGES in samples. An antibody specific for PTGES has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PTGES present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTGES 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 PTGES bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Prostaglandin E synthase is an enzyme involved in eicosanoid and glutathione metabolism, a member of MAPEG family. It generates prostaglandin E (PGE) from prostaglandin H2.The synthase generating PGE2 is a membrane-associated protein. Prostaglandin E synthase is a glutathione-dependent prostaglandin E synthase. The expression of this gene has been shown to be induced by proinflammatory cytokine interleukin 1 beta (IL1B). Its expression can also be induced by tumor suppressor protein TP53, and may be involved in TP53 induced apoptosis.The authors grouped the MGST1L1 protein with other members of the MAPEG (membrane-associated proteins in eicosanoid and glutathione metabolism) superfamily, which includes MGST2, MGST3, LTC4S, and FLAP (ALOX5AP).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4758910
NCBI GeneID	9536
NCBI Accession #	NP_004869.1
NCBI GenBank Nucleotide #	NP_004869.1
UniProt Accession #	O14684
NCBI Official Full Name	prostaglandin E synthase
NCBI Official Synonym Full Names	prostaglandin E synthase
NCBI Official Symbol	PTGES
NCBI Official Synonym Symbols	PGES; MPGES; PIG12; PP102; PP1294; MGST-IV; MGST1L1; TP53I12; mPGES-1; MGST1-L1
NCBI Protein Information	prostaglandin E synthase
UniProt Protein Name	Prostaglandin E synthase
UniProt Gene Name	PTGES
UniProt Synonym Gene Names	MGST1L1; MPGES1; PGES; PIG12; MGST1-L1; MPGES-1
UniProt Entry Name	PTGES_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.