

Human Phosphoglucomutase-2 (PGM2) ELISA Kit | PGM2 elisa kit

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CATALOG #
AAA331402

REACTIVITY
Human

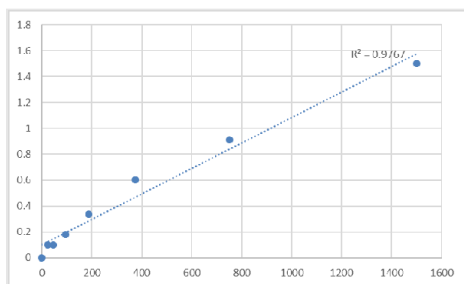
PRODUCT SYNONYMS

Phosphoglucomutase-2 (PGM2); Human Phosphoglucomutase-2 (PGM2) ELISA Kit; PGM2; FLJ10983; MSTP006; glucose phosphomutase 2; PGM2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Phosphoglucomutase-2 (PGM2) ELISA Kit has high sensitivity and excellent specificity for detection of Human PGM2. No significant cross-reactivity or interference between Human PGM2 and analogues was observed.
Sequence Length	612
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 Phosphoglucomutase-2 (PGM2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PGM2 elisa kit	Description: This Human Phosphoglucomutase-2 (PGM2) ELISA Kit employs a two-site sandwich ELISA to quantitate PGM2 in samples. An antibody specific for PGM2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PGM2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PGM2 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 PGM2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The PGM2 protein shares about 20% identity with mammalian PGM1. Sequence analysis suggested that PGM2 is a cytosolic protein. Quantitative RT-PCR of mouse tissues detected the highest expression levels of PGM2 in lung, spleen, and thymus. PGM2 acted more than 10-fold better as a phosphopentomutase than as a phosphoglucomutase. PGM2 may play a role in congenital immunodeficiencies. phosphopentomutase uses ribose 1-phosphate and deoxyribose 1-phosphate, which are formed by purine nucleoside phosphorylase and uridine phosphorylase, and that the absence of phosphopentomutase should result in the accumulation of ribose 1-phosphate and deoxyribose 1-phosphate and therefore in a functional block of purine nucleoside phosphorylase.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	63055049
NCBI GeneID	55276
NCBI Accession #	NP_060760.2
NCBI GenBank Nucleotide #	NP_060760.2
UniProt Accession #	Q96G03
NCBI Official Full Name	phosphoglucomutase-2
NCBI Official Synonym Full Names	phosphoglucomutase 2
NCBI Official Symbol	PGM2
NCBI Official Synonym Symbols	MSTP006
NCBI Protein Information	phosphoglucomutase-2
UniProt Protein Name	Phosphoglucomutase-2
UniProt Gene Name	PGM2
UniProt Synonym Gene Names	PGM 2
UniProt Entry Name	PGM2_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://www.aaabiotech.com/human-elisa-kits/phosphoglucomutase-2-pgm2/331402>