

Human Protein Disulfide-Isomerase A6 (PDIA6) ELISA Kit | PDIA6 elisa kit

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CATALOG #
AAA331431

REACTIVITY
Human

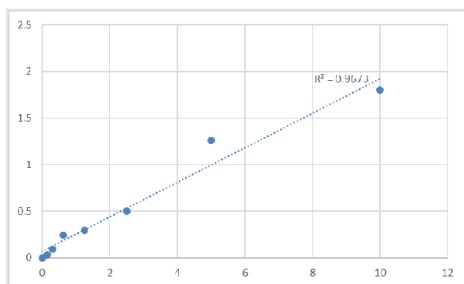
PRODUCT SYNONYMS

Protein Disulfide-Isomerase A6 (PDIA6); Human Protein Disulfide-Isomerase A6 (PDIA6) ELISA Kit; PDIA6; ERP5; P5; TXNDC7; endoplasmic reticulum protein 5; protein disulfide isomerase A6; protein disulfide isomerase-associated 6; protein disulfide isomerase-related protein; thioredoxin domain containing 7; PDIA6 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Protein disulfide-isomerase A6 (PDIA6) ELISA Kit has high sensitivity and excellent specificity for detection of Human PDIA6. No significant cross-reactivity or interference between Human PDIA6 and analogues was observed.
Sequence Length	440
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 Protein disulfide-isomerase A6 (PDIA6) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PDIA6 elisa kit	Description: This Human Protein disulfide-isomerase A6 (PDIA6) ELISA Kit employs a two-site sandwich ELISA to quantitate PDIA6 in samples. An antibody specific for PDIA6 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PDIA6 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PDIA6 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 PDIA6 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Protein disulfide isomerases, such as PDIA6, are endoplasmic reticulum resident proteins that catalyze formation, reduction, and isomerization of disulfide bonds in proteins and are thought to play a role in folding of disulfide-bonded proteins The deduced 440-amino acid protein has a calculated molecular mass of 48.1 kD. It has a putative N-terminal signal sequence, followed by 2 thioredoxin like domains and a C-terminal ER retention signal. Mutation analysis revealed that the first thioredoxin-like motif of P5 was more important than the second for isomerase activity, and that the first cysteine in each motif was necessary for isomerase activity. Thioredoxin motif mutants of P5 lacking isomerase activity retained chaperone activity with citrate synthase as substrate, indicating that, like PDI, the isomerase and chaperone activities of P5 are likely independent.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2501205
NCBI GeneID	10130
UniProt Accession #	Q15084
NCBI Official Full Name	Protein disulfide-isomerase A6
NCBI Official Synonym Full Names	protein disulfide isomerase family A member 6
NCBI Official Symbol	PDIA6
NCBI Official Synonym Symbols	P5; ERP5; TXNDC7
NCBI Protein Information	protein disulfide-isomerase A6
UniProt Protein Name	Protein disulfide-isomerase A6
UniProt Gene Name	PDIA6
UniProt Synonym Gene Names	ERP5; P5; TXNDC7; ER protein 5; Erp5
UniProt Entry Name	PDIA6_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/protein-disulfide-isomerase-a6-pdia6/331431>