# Human Protein Disulfide-Isomerase A5 (PDIA5) ELISA Kit | PDIA5 elisa kit

Human Protein Disulfide-Isomerase A5 (PDIA5) ELISA Kit

| CATALOG # | REACTIVITY |
|---|---|
| **AAA331432** | **Human** |

## PRODUCT SYNONYMS

Protein Disulfide-Isomerase A5 (PDIA5); Human Protein Disulfide-Isomerase A5 (PDIA5) ELISA Kit; PDIA5; FLJ30401; PDIR; protein disulfide isomerase A5; protein disulfide isomerase-associated 5; protein disulfide isomerase-related; PDIA5 elisa kit

## PRODUCT SPECIFICATIONS

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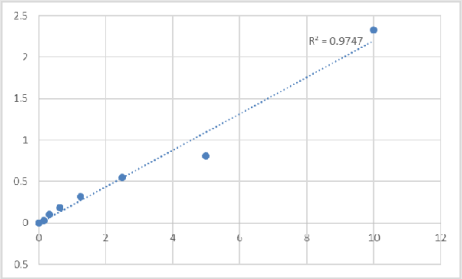
| **Reactivity** | Human |
| **Specificity** | Human Protein disulfide-isomerase A5 (PDIA5) ELISA Kit has high sensitivity and excellent specificity for detection of Human PDIA5. No significant cross-reactivity or interference between Human PDIA5 and analogues was observed. |
| **Sequence Length** | 519 |
| **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.<br>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.<br>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.<br>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.<br>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.<br>* 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 A5 (PDIA5) Standard Curve.

## ADDITIONAL INFORMATION

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| **Related Product Information for PDIA5 elisa kit** | Description: This Human Protein disulfide-isomerase A5 (PDIA5) ELISA Kit employs a two-site sandwich ELISA to quantitate PDIA5 in samples. An antibody specific for PDIA5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PDIA5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PDIA5 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 PDIA5 bound in the initial step. The color development is stopped and the intensity of the color is measured.<br><br>Background: Protein Disulfide Isomerase A5is an enzyme in the endoplasmic reticulum in eukaryotes or periplasmic space of prokaryotes that catalyzes the formation and breakage of disulfide bonds between cysteine residues within proteins as they fold. This allows proteins to quickly find the correct arrangement of disulfide bonds in their fully-folded state, and therefore the enzyme acts to catalyze protein folding. In the chloroplasts of the unicellular algae Chlamydomonas reinhardtii the PDI RB60 serves as a redox sensor component of an mRNA binding protein complex implicated in the photo-regulation of the translation of psbA, the RNA encoding for the photoisystem II core protein D1. PDI has also been suggested to play a role in the formation of regulatory disulfide bonds in chloroplasts |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 5803121 |
| **NCBI GeneID** | 10954 |
| **NCBI Accession #** | NP_006801 |
| **NCBI GenBank Nucleotide #** | NP_006801.1 |
| **UniProt Accession #** | Q14554 |
| **NCBI Official Full Name** | protein disulfide-isomerase A5 |
| **NCBI Official Synonym Full Names** | protein disulfide isomerase family A member 5 |
| **NCBI Official Symbol** | PDIA5 |
| **NCBI Official Synonym Symbols** | PDIR |
| **NCBI Protein Information** | protein disulfide-isomerase A5 |
| **UniProt Protein Name** | Protein disulfide-isomerase A5 |
| **UniProt Gene Name** | **PDIA5** |
| **UniProt Synonym Gene Names** | PDIR |
| **UniProt Entry Name** | PDIA5_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/protein-disulfide-isomerase-a5-pdia5/331432