

## Mouse protein disulfide isomerase family A, member 4 ELISA Kit | PDIA4 elisa kit

Mouse Protein disulfide-isomerase A4, PDIA4 ELISA Kit

CATALOG #  
**AAA112270**

REACTIVITY  
**Mouse**

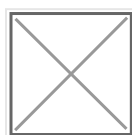
### PRODUCT SYNONYMS

protein disulfide isomerase family A; member 4; Mouse Protein disulfide-isomerase A4; PDIA4 ELISA Kit; Mouse Protein disulfide-isomerase A4 (PDIA4) ELISA kit; ERP70; ERP72; protein disulfide isomerase A4; protein disulfide isomerase related protein (calcium-binding protein; intestinal-related) ; protein disulfide isomerase-associated 4; PDIA4 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                                                                                                                                                                                        |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of mouse PDIA4. No significant cross-reactivity or interference between mouse PDIA4 and analogues was observed.                                                                                                                                                                      |
| Sequence Length         | 641                                                                                                                                                                                                                                                                                                                                                          |
| Samples                 | Serum, plasma, tissue homogenates, Cell lysates                                                                                                                                                                                                                                                                                                              |
| Assay Type              | Sandwich                                                                                                                                                                                                                                                                                                                                                     |
| Detection Range         | 0.312 ng/ml -20 ng/ml.                                                                                                                                                                                                                                                                                                                                       |
| Sensitivity             | The minimum detectable dose of mouse PDIA4 is typically less than 0.078 ng/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations. |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.                                                                                                                                                                                                             |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.                                                                                                                                                                                                                      |
| Preparation and Storage | Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.                                                                                                                                                                                                                            |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for PDIA4 elisa kit

Principle of the assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for PDIA4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PDIA4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PDIA4 is added to the wells. After washing, avidin 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 PDIA4 bound in the initial step. The color development is stopped and the intensity of the color is measured.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 86198316                                                                                                                                                        |
| NCBI GeneID                      | 12304                                                                                                                                                           |
| NCBI Accession #                 | NP_033917.2                                                                                                                                                     |
| NCBI GenBank Nucleotide #        | NM_009787.2                                                                                                                                                     |
| UniProt Accession #              | P08003; P15841; Q3TT79; Q3UJW0; Q6NXW4; Q8BMT8                                                                                                                  |
| Molecular Weight                 | 71,982 Da                                                                                                                                                       |
| NCBI Official Full Name          | protein disulfide-isomerase A4                                                                                                                                  |
| NCBI Official Synonym Full Names | protein disulfide isomerase associated 4                                                                                                                        |
| NCBI Official Symbol             | Pdia4                                                                                                                                                           |
| NCBI Official Synonym Symbols    | Cai; Erp72; ERp-72; AI987846                                                                                                                                    |
| NCBI Protein Information         | protein disulfide-isomerase A4; ER protein 72; endoplasmic reticulum protein 72; calcium binding protein, intestinal; endoplasmic reticulum resident protein 72 |
| UniProt Protein Name             | Protein disulfide-isomerase A4                                                                                                                                  |
| UniProt Gene Name                | <b>Pdia4</b>                                                                                                                                                    |
| UniProt Synonym Gene Names       | Cai; Erp72; ER protein 72; ERp-72; ERp72                                                                                                                        |
| UniProt Entry Name               | PDIA4_MOUSE                                                                                                                                                     |

**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/pdia4-mouse-elisa-kits/protein-disulfide-isomerase-family-a-member-4/112270>