

Human Protein disulfide-isomerase A6 (PDIA6) ELISA Kit



Catalog No: #EK8599

Orders: order@signalwayantibody.com

Package Size: #EK8599-1 48T #EK8599-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Protein disulfide-isomerase A6 (PDIA6) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	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
Accession No.	Q15084
Uniprot	Q15084
GeneID	10130;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.049 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay 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 anyPDIA6 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.**Product Overview:**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.

Note: This product is for in vitro research use only