Human Protein disulfide-isomerase A5 (PDIA5) ELISA Kit

Catalog No: #EK8600

Package Size: #EK8600-1 48T #EK8600-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Protein disulfide-isomerase A5 (PDIA5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ30401; PDIR; protein disulfide isomerase A5|protein disulfide isomerase-associated 5|protein disulfide isomerase-related
Accession No.	Q14554
Uniprot	Q14554
GeneID	10954;
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:0.058 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 PDIA5 in samples. An antibody specific for PDIA5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPDIA5 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.Product Overview: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

Note: This product is for in vitro research use only