

Human Protein disulfide-isomerase A3 (PDIA3) ELISA Kit



Catalog No: #EK8602

Package Size: #EK8602-1 48T #EK8602-2 96T

Orders: order@signalwayantibody.com

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Description

Product Name	Human Protein disulfide-isomerase A3 (PDIA3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ER60; ERp57; ERp60; ERp61; GRP57; GRP58; HsT17083; P58; PI-PLC; 58 kDa microsomal protein endoplasmic reticulum P58 glucose regulated protein; 58kDa phospholipase C-alpha protein disulfide isomerase
Accession No.	P30101
Uniprot	P30101
GeneID	2923;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.056 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 PDIA3 in samples. An antibody specific for PDIA3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPDIA3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PDIA3 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 PDIA3 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:The PDIA3 protein has protein disulfide isomerase activity. PDIA3 is also part of the major histocompatibility complex (MHC) class I peptide-loading complex (TAP1), which is essential for formation of the final antigen conformation and export from the endoplasmic reticulum to the cell surface.

The cDNA encoding human GRP58 was cloned independently by Bourdi et al. (1995), Koivunen et al. (1996), and Hirano et al. (1995). All reported that the gene encodes a 505-amino acid polypeptide with significant homology to human protein disulfide isomerase (PDI). Bourdi et al. (1995) noted

that the sequence includes a putative nuclear localization motif and an endoplasmic reticulum (ER)-retention/retrieval motif.

Note: This product is for in vitro research use only