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# **Human GRP58/PDIA3 antibody**

Catalog Number: ATGA0410

#### PRODUCT INFORMATION

#### Catalog number

ATGA0410

#### Clone No.

AT9E9

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P30101

#### **NCBI Accession No.**

NP 005304

#### **Alternative Names**

Protein disulfide isomerase family A member 3, Glucose regulated protein 58kDa, GPR58, Protein disulfide isomerase-associated 3, 58 kDa microsomal protein, P58, ERp61, Endoplasmic reticulum resident protein 57, ER protein 57, ERp57, Disulfide isomerase ER-60, Endoplasmic reticulum resident protein 60, ER protein 60, ERp60, GRP57, PI-PLC, HsT17083

### **PRODUCT SPECIFICATION**

#### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human PDIA3 (25-505aa) purified from E. coli

#### Isotype

IgG2a kappa

#### **Purification Note**

By protein-A affinity chromatography

#### **Application**

ELISA, WB, ICC/IF

#### Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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#### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

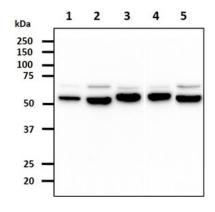
PDIA3, also known as protein disulfide-isomerase A3, is a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. This protein has protein disulfide isomerase activity. PDIA3 is also part of the major 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.

#### **General References**

Huppa JB., Ploegh HL. (1998) Cell. 92: 145-8. Ellgaard L., Ruddock LW. (2005) EMBO Rep. 6: 28-32. Jessop CE., et al. (2007) EMBO J. 26: 28-40.

#### **DATA**

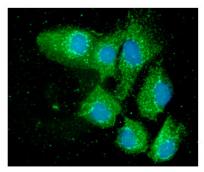
### Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PDIA3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: HepG2 cell lysate Lane 3.: NIH3T3 cell lysate Lane 4.: Raw 264.7 cell lysate Lane 5.: LNCaP cell lysate

## Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of PDIA3 in Hep3B cells. The cell was stained with ATGA0410 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

