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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

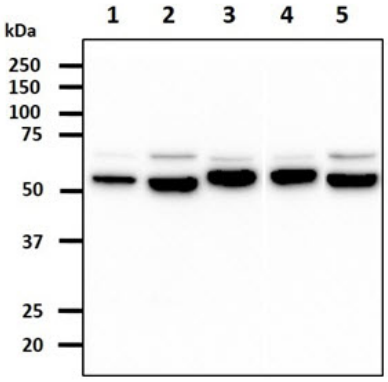
PDIA3, also known as protein disulfide-isomerase A3, is a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. This protein has protein disulfide isomerase activity. PDIA3 is also part of the major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

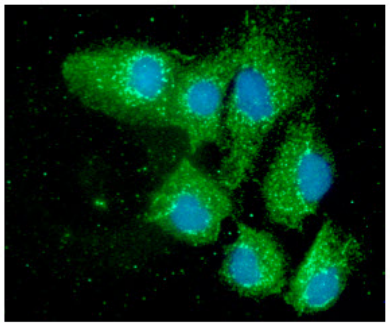
DATA

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).