**Basic Information**

**Catalog Number:** 15967-1-AP  
**Size:** 150μL, Concentration: 300 μg/ml by Bradford method using BSA as the standard;  
**Source:** Rabbit  
**Isotype:** IgG  
**Immunogen Catalog Number:** AG8741  
**GenBank Accession Number:** BCO14433  
**GeneID (NCBI):** 2923  
**Full Name:** protein disulfide isomerase family A, member 3  
**Calculated MW:** 505 aa, 57 kDa  
**Observed MW:** 57 kDa

**Purification Method:** Antigen affinity purification  
**Recommended Dilutions:**  
- **WB:** 1:2000-1:16000  
- **IP:** 0.5-4.0 μg for IP and 1:1000-1:4000 for WB  
- **IHC:** 1:50-1:500  
- **IF:** 1:20-1:200

**Applications**

**Tested Applications:** FC, IF, IHC, IP, WB, ELISA  
**Cited Applications:** ELISA, IF, IHC, IP, WB  
**Species Specificity:** human, mouse, rat  
**Cited Species:** human, mouse, pig, rat

**Note-IHC:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Background Information**

PDIA3, also named as P58, ER60, ERp57, ERp60, ERp61, GRP57, GRP58 and PI-PLC, is a member of the PDI family, participates in the oxidation, reduction, and isomerization of disulfide bonds for correct folding of secretory proteins before modification and transport in the endoplasmic reticulum. It is associated with apoptosis or inhibition of cancer cell growth. PDIA3 was once thought to be a phospholipase; however, it has been demonstrated that this protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and PDIA3 mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates.

**Notable Publications**

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<tr>
<td>Xin-Yu Guo</td>
<td>32967966</td>
<td>J Biol Chem</td>
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<td>Soma Samanta</td>
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<td>Gongsheng Yuan</td>
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<td>J Bone Miner Res</td>
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**Storage**

- Store at -20°C. Stable for one year after shipment.  
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
- Aliquoting is unnecessary for -20°C storage.

*For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) [toll free in USA], or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com  
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.*
Various lysates were subjected to SDS PAGE followed by western blot with 15967-1-AP (ERp57/ERp60 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.


Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 15967-1-AP (ERp57/ERp60 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).


1X10^6 HepG2 cells were stained with 0.2ug ERp57/ERp60 antibody (15967-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.