

For Research Use Only

# ERp57/ERp60 Polyclonal antibody

Catalog Number: 15967-1-AP

Featured Product

32 Publications



## Basic Information

<b>Catalog Number:</b> 15967-1-AP	<b>GenBank Accession Number:</b> BC014433	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 550 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2923	<b>Recommended Dilutions:</b> WB 1:2000-1:16000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Source:</b> Rabbit	<b>Full Name:</b> protein disulfide isomerase family A, member 3	<b>IHC 1:50-1:500</b> <b>IF 1:200-1:800</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 505 aa, 57 kDa	
<b>Immunogen Catalog Number:</b> AG8741	<b>Observed MW:</b> 57 kDa	

## Applications

**Tested Applications:**  
FC, IF, IHC, IP, WB, ELISA

**Cited Applications:**  
ELISA, IF, IHC, IP, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, rat, mouse, pig

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

**Positive Controls:**

**WB:** A375 cells, LO2 cells, mouse liver tissue, rat liver tissue

**IP:** mouse liver tissue,

**IHC:** human lung cancer tissue,

**IF:** HepG2 cells,

## 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

Author	Pubmed ID	Journal	Application
Jing Sun	34650437	Front Pharmacol	WB
Xin-Yu Guo	32967966	J Biol Chem	WB
Soma Samanta	29262583	Oncotarget	WB,IHC

## Storage

**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

\*\*\* 20ul sizes contain 0.1% BSA

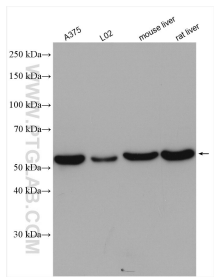
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

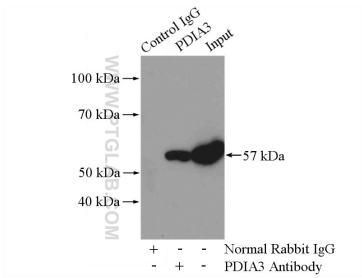
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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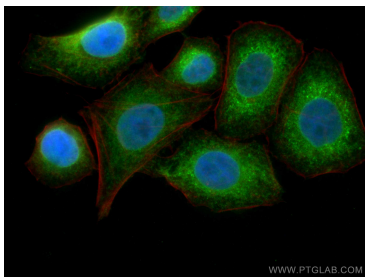
Selected Validation Data



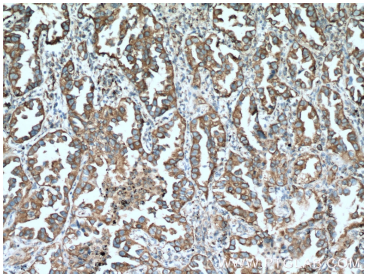
Various lysates were subjected to SDS PAGE followed by western blot with 15967-1-AP (Erp57/Erp60 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



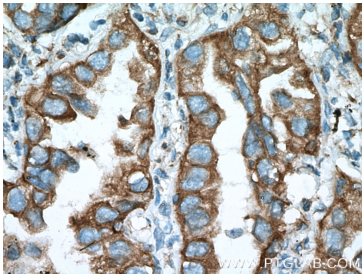
IP Result of anti-ERP57/ERP60 (IP:15967-1-AP, 4ug; Detection:15967-1-AP 1:2000) with mouse liver tissue lysate 4000ug.



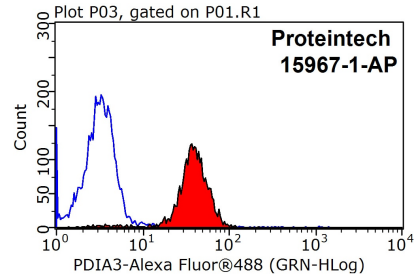
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ERP57/Erp60 antibody (15967-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15967-1-AP (Erp57/Erp60 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15967-1-AP (Erp57/Erp60 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.