For Research Use Only

# ERp57/ERp60 Monoclonal antibody

Catalog Number:66423-1-Ig

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## Basic Information

Catalog Number:
66423-1-Ig

Size:
150ul , Concentration: 2000 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG8741

GenBank Accession Number:
BC014433

GeneID (NCBI):
2923

UNIPROT ID:
P30101

Full Name:
protein disulfide isomerase family A, member 3

Calculated MW:
505 aa, 57 kDa

Observed MW:
57 kDa, 60 kDa

Purification Method:
Protein G purification

CloneNo.:
3G4G7

Recommended Dilutions:
WB 1:2000-1:20000
IHC 1:200-1:800
IF/ICC 1:400-1:1600

## Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

***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 : U2OS cells, HeLa cells, HEK-293 cells, Jurkat cells, RAW 264.7 cells, LNCaP cells, K-562 cells, HSC-T6 cells, PC-12 cells, NIH/3T3 cells

IHC : human lung cancer tissue, human liver cancer tissue

IF/ICC : HEK-293 cells, 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.

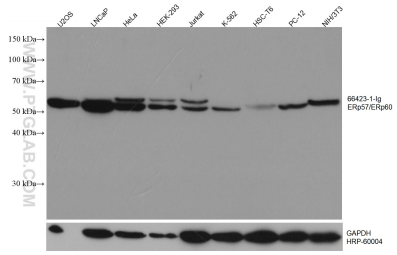
## Storage

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

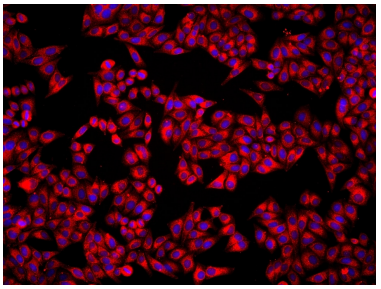
***** 20ul sizes contain 0.1% BSA**

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
W: ptglab.com

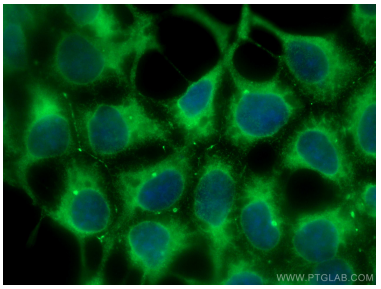
## Selected Validation Data



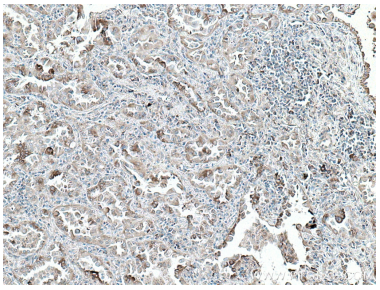

Various lysates were subjected to SDS PAGE followed by western blot with 66423-1-Ig (ERp57/ERp60 antibody) at dilution of 1:9700 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



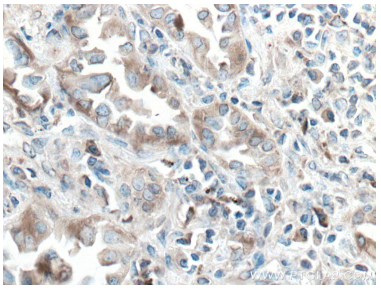
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ERp57/ERp60 antibody (66423-1-Ig, Clone: 3G4G7 ) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004 ).




Immunofluorescent analysis of (-20°C Methanol) fixed HEK-293 cells using ERp57/ERp60 antibody (66423-1-Ig, Clone: 3G4G7 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66423-1-Ig (ERp57/ERp60 antibody) at dilution of 1:400 (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 66423-1-Ig (ERp57/ERp60 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).