

## Basic Information

<b>Product Name</b>	Anti-ERp57/ERp60/PDIA3 Antibody	
<b>Gene Name</b>	PDIA3	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence in the middle region of human ERp57, identical to the related rat and mouse sequences.	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	57 kDa	
<b>Dilution Ratios</b>	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied.

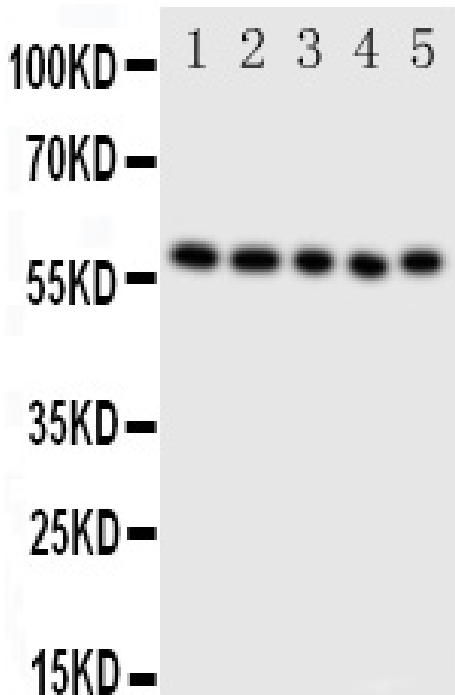
## Background Information

PDIA3 (Protein disulfide isomerase family A, member 3), also called GRP58, Erp57 or ER60, is an isomerase enzyme. It is mapped on 15q15.3. PDIA3 is also part of the major histocompatibility complex (MHC) class I peptide-loading complex, which is essential for formation of the final antigen conformation and export from the endoplasmic reticulum to the cell surface. This gene encodes a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. The protein was once thought to be a phospholipase; however, it has been demonstrated that the protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and this protein mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates.

## Reference

Anti-ERp57/ERp60/PDIA3 Antibody被引用在1文献中。

## Selected Validation Data



Western blot analysis of ERp57/ERp60/PDIA3 using anti-ERp57/ERp60/PDIA3 antibody (BA2187). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: SMMC whole cell lysates,

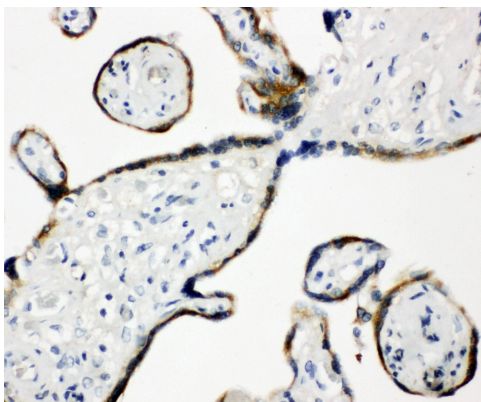
Lane 2: A549 whole cell lysates,

Lane 3: U87 whole cell lysates,

Lane 4: HELA whole cell lysates,

Lane 5: MCF-7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ERp57/ERp60/PDIA3 antigen affinity purified polyclonal antibody (BA2187) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ERp57/ERp60/PDIA3 at approximately 57 kDa. The expected band size for ERp57/ERp60/PDIA3 is at 57 kDa.



IHC analysis of ERp57/ERp60/PDIA3 using anti-ERp57/ERp60/PDIA3 antibody (BA2187).

ERp57/ERp60/PDIA3 was detected in a paraffin-embedded section of human placenta tissue. The tissue section was incubated with rabbit anti-ERp57/ERp60/PDIA3 Antibody (BA2187) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.