

Anti-ERp57/PDIA3 Antibody

Catalog Number: PA1679

About PDIA3

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.

Overview

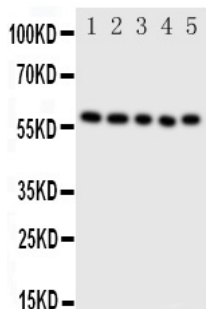
Product Name	Anti-ERp57/PDIA3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ERp57/PDIA3 Antibody catalog # PA1679. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P30101

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human ERp57, identical to the related rat and mouse sequences.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

Anti-ERp57/PDIA3 Antibody (PA1679) Images



Anti-ERp57 antibody, PA1679, Western blotting

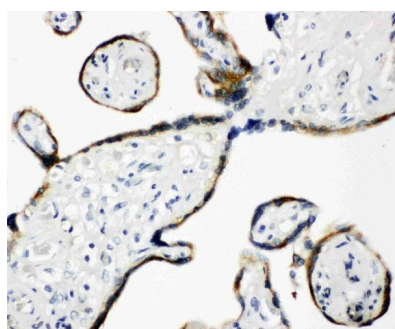
Lane 1: SMMC Cell Lysate

Lane 2: A549 Cell Lysate

Lane 3: U87 Cell Lysate

Lane 4: HELA Cell Lysate

Lane 5: MCF-7 Cell Lysate



Anti-ERp57 antibody, PA1679, IHC(P)

IHC(P): Human Placenta Tissue

1 Publications Citing This Product

1. PubMed ID: 25890254, Shen L, Chen C, Yang A, Chen Y, Liu Q, Ni J. J Proteomics. 2015 Jun 18;123:101-13. Doi: 10.1016/J.Jprot.2015.04.005. Epub 2015 Apr 15. Redox Proteomics Identification Of Specifically Carbonylated Proteins In The Hippocampi Of Triple Transgenic Alz...

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