

Anti-ERp57/PDIA3 Antibody Picoband®

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

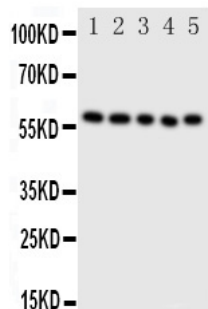
Product Name	Anti-ERp57/PDIA3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ERp57/PDIA3 Antibody catalog # PA1679. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ N. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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

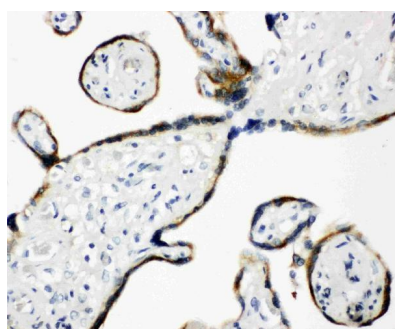
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human ERp57, identical to the related rat and mouse sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit 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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

Anti-ERp57/PDIA3 Antibody Picoband® (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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Anti-ERp57/PDIA3 Antibody

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