

# Anti-PDIA3 / ERp57 Antibody [JM11-44]

ET1703-68



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IP, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 57 kDa
<b>Clone number:</b>	JM11-44

**Description:** Mammals defend themselves against intracellular pathogens through presentation of cytoplasmically-derived short pathogenic peptides to the cell surface of cytotoxic T lymphocytes, which subsequently leads to cytotoxic events with respect to the affected cell. Antigen presentation is mediated by major histocompatibility complex (MHC) class I molecules, which bind and coordinate short pathogenic peptides. MHC class I molecules assemble in the endoplasmic reticulum with chaperones before binding to the transporter associated with antigen processing (TAP). ERp57, also designated GRP57, GRP58, ERp60 and ERp61, is a component of the MHC class I pathway that appears to interact with MHC class I molecules before they associate with TAP. The human ERp57 gene maps to chromosome 15q15 and encodes a 505 amino acid protein. ERp57 has two Trp-Cys-Gly-His-Cys-Lys motifs completely conserved among the mammals. ERp57 may act as a protease, a protein disulfide isomerase, a phospholipase or a combination of these.

**Immunogen:** Synthetic peptide within Human PDIA3 aa 175-208 / 505.

**Positive control:** HepG2 cell lysate, LNCaP cell lysate, human kidney tissue, human pancreas tissue, human uterus tissue.

**Subcellular location:** Endoplasmic reticulum lumen. Melanosome.

**Database links:** SwissProt: P30101 Human

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IHC-P</b>	1:50-1:200
<b>IP</b>	1:10-1:50

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images

**Fig1:** Western blot analysis of PDIA3 / ERp57 on different lysates with Rabbit anti-PDIA3 / ERp57 antibody (ET1703-68) at 1/1,000 dilution.

Lane 1: HepG2 cell lysate

Lane 2: LNCaP cell lysate

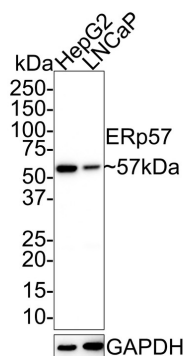
Lysates/proteins at 10 µg/Lane.

Predicted band size: 57 kDa

Observed band size: 57 kDa

Exposure time: 15 seconds;

4-20% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1703-68) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of PDIA3 / ERp57 on different lysates with Rabbit anti-PDIA3 / ERp57 antibody (ET1703-68) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate

Lane 2: HAP1-PDIA3 / ERp57 KD cell lysate

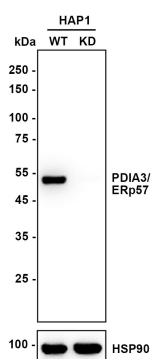
Lysates/proteins at 10 µg/Lane.

Predicted band size: 57 kDa

Observed band size: 50 kDa

Exposure time: 21 seconds; ECL: K1801;

4-20% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1703-68) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

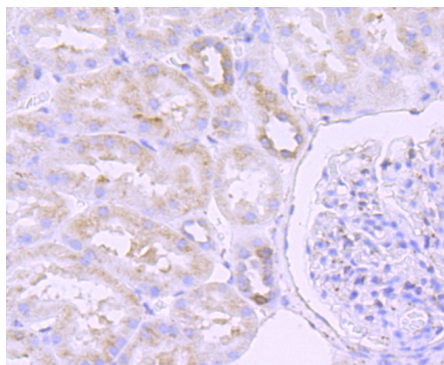
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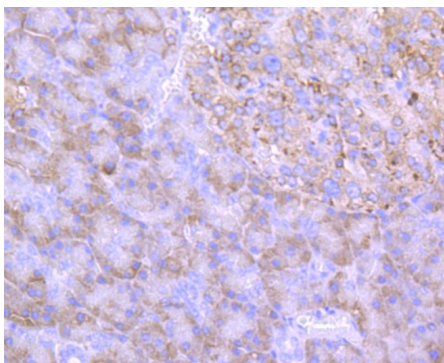
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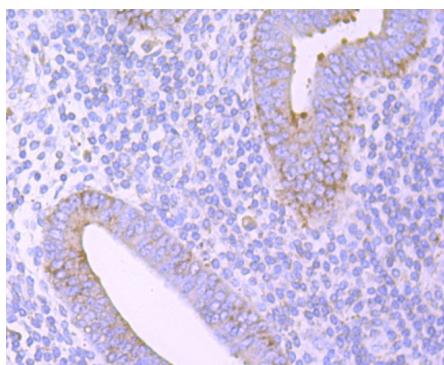
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**Fig3:** Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-ERp57 antibody. Counter stained with hematoxylin.



**Fig4:** Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-ERp57 antibody. Counter stained with hematoxylin.



**Fig5:** Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-ERp57 antibody. Counter stained with hematoxylin.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. He Y et al. Largescale Transcriptomics Analysis Suggests Over-Expression of BGH3, MMP9 and PDIA3 in Oral Squamous Cell Carcinoma. PLoS One 11:e0146530 (2016).
2. Kodavanti PR et al. Developmental exposure to a commercial PBDE mixture: effects on protein networks in the cerebellum and hippocampus of rats. Environ Health Perspect 123:428-36 (2015).

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