

## Anti-ERp57 PDIA3 Rabbit Monoclonal Antibody Catalog # ABO13782

### Specification

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#### Anti-ERp57 PDIA3 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IP
Primary Accession	<a href="#">P30101</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-ERp57 PDIA3 Rabbit Monoclonal Antibody . Tested in WB, IHC, IP applications. This antibody reacts with Human.

#### Anti-ERp57 PDIA3 Rabbit Monoclonal Antibody - Additional Information

**Gene ID** 2923

#### Other Names

Protein disulfide-isomerase A3, 5.3.4.1, 58 kDa glucose-regulated protein, 58 kDa microsomal protein, p58, Disulfide isomerase ER-60, Endoplasmic reticulum resident protein 57, ER protein 57, ERp57, Endoplasmic reticulum resident protein 60, ER protein 60, ERp60, PDIA3 ([HGNC:4606](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4606)), ERP57, ERP60, GRP58

#### Calculated MW

56782 MW KDa

#### Application Details

WB 1:500-1:2000<br>IHC 1:50-1:200<br>IP 1:50

#### Subcellular Localization

Endoplasmic reticulum. Endoplasmic reticulum lumen. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

#### Tissue Specificity

Detected in the flagellum and head region of spermatozoa (at protein level)..

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human ERp57

#### Purification

Affinity-chromatography

**Storage**

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

**Anti-ERp57 PDIA3 Rabbit Monoclonal Antibody - Protein Information**

**Name** PDIA3 ([HGNC:4606](#))

**Synonyms** ERP57, ERP60, GRP58

**Function**

Protein disulfide isomerase that catalyzes the formation, isomerization, and reduction or oxidation of disulfide bonds in client proteins and functions as a protein folding chaperone (PubMed: [11825568](http://www.uniprot.org/citations/11825568), PubMed: [16193070](http://www.uniprot.org/citations/16193070), PubMed: [27897272](http://www.uniprot.org/citations/27897272), PubMed: [36104323](http://www.uniprot.org/citations/36104323), PubMed: [7487104](http://www.uniprot.org/citations/7487104)). Core component of the major histocompatibility complex class I (MHC I) peptide loading complex where it functions as an essential folding chaperone for TAPBP. Through TAPBP, assists the dynamic assembly of the MHC I complex with high affinity antigens in the endoplasmic reticulum. Therefore, plays a crucial role in the presentation of antigens to cytotoxic T cells in adaptive immunity (PubMed: [35948544](http://www.uniprot.org/citations/35948544), PubMed: [36104323](http://www.uniprot.org/citations/36104323)).

**Cellular Location**

Endoplasmic reticulum. Endoplasmic reticulum lumen {ECO:0000250|UniProtKB:P11598}. Melanosome Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:12643545).

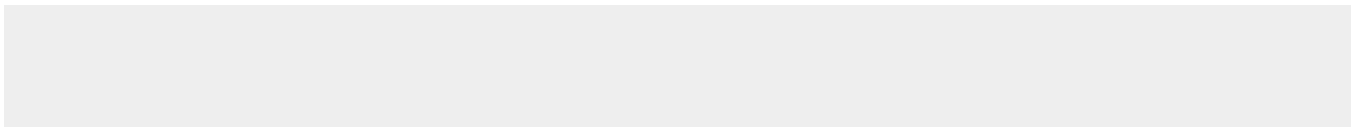
**Tissue Location**

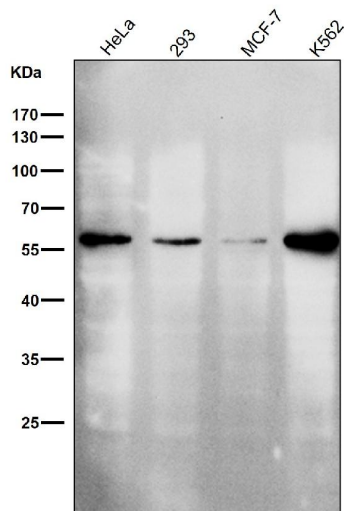
Detected in the flagellum and head region of spermatozoa (at protein level) (PubMed:20400973). Expressed in liver, stomach and colon (at protein level). Expressed in gastric parietal cells and chief cells (at protein level) (PubMed:24188822)

**Anti-ERp57 PDIA3 Rabbit Monoclonal Antibody - Protocols**

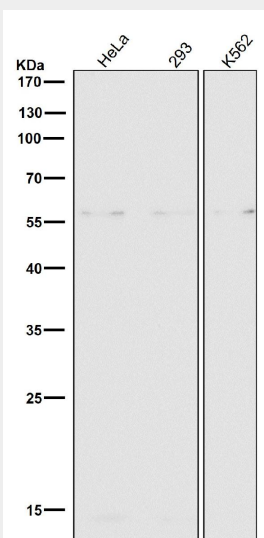
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

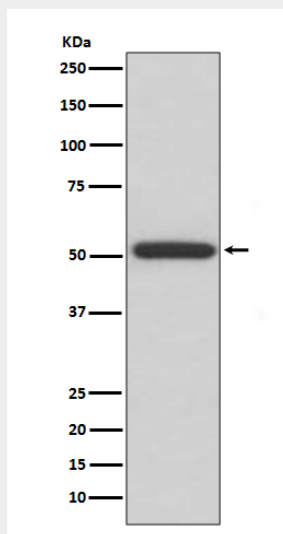
**Anti-ERp57 PDIA3 Rabbit Monoclonal Antibody - Images**



All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.



Western blot analysis of ERp57 expression in HepG2 cell lysate.