

**ERp57 Polyclonal Antibody**  
Catalog # AP73403**Specification****ERp57 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P30101</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**ERp57 Polyclonal Antibody - Additional Information**

Gene ID 2923

**Other Names**

PDIA3; ERP57; ERP60; GRP58; Protein disulfide-isomerase A3; 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

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**ERp57 Polyclonal 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: <a href="http://www.uniprot.org/citations/11825568" target="\_blank">11825568</a>, PubMed: <a href="http://www.uniprot.org/citations/16193070" target="\_blank">16193070</a>, PubMed: <a href="http://www.uniprot.org/citations/27897272" target="\_blank">27897272</a>, PubMed: <a href="http://www.uniprot.org/citations/36104323" target="\_blank">36104323</a>, PubMed: <a href="http://www.uniprot.org/citations/7487104" target="\_blank">7487104</a>). 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:<a href="http://www.uniprot.org/citations/35948544" target="\_blank">35948544</a>, PubMed:<a href="http://www.uniprot.org/citations/36104323" target="\_blank">36104323</a>).

#### 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)

### ERp57 Polyclonal 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](#)

### ERp57 Polyclonal Antibody - Images





