

**ERp57 Rabbit mAb**  
Catalog # AP77670**Specification**

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**ERp57 Rabbit mAb - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P30101</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>56782</b>

**ERp57 Rabbit mAb - Additional Information****Gene ID** 2923**Other Names**

PDIA3

**Dilution**

WB~~1/500-1/1000

**Format**

Liquid

**ERp57 Rabbit mAb - 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)

#### **ERp57 Rabbit mAb - 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 Rabbit mAb - Images**

