

PDIA3 / ERp57 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS12909**Specification**

PDIA3 / ERp57 Antibody - Product Information

Application	WB
Primary Accession	P30101
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57kDa KDa

PDIA3 / ERp57 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, ERP57, ERP60, GRP58

Reconstitution & Storage

Store at -20°C.

Precautions

PDIA3 / ERp57 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PDIA3 / ERp57 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:7487104, PubMed:11825568, PubMed:16193070, PubMed:27897272, PubMed:36104323). 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, PubMed: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

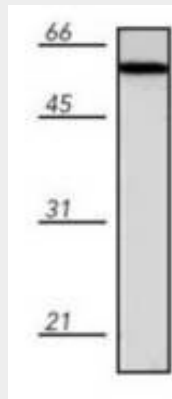
Detected in the flagellum and head region of spermatozoa (at protein level) (PubMed:20400973). Expressed in liver, stomach and colon (at protein level). Expressed in gastric parietal cells and chief cells (at protein level) (PubMed:24188822)

PDIA3 / ERp57 Antibody - Protocols

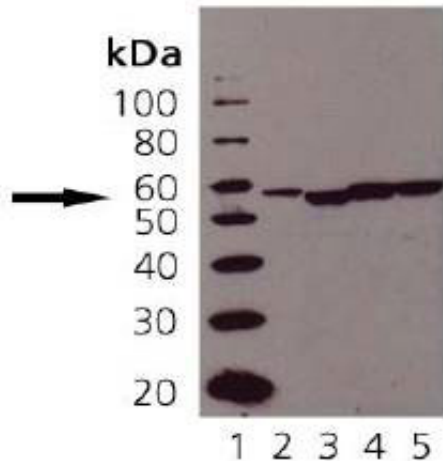
Provided below are standard protocols that you may find useful for product applications.

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

PDIA3 / ERp57 Antibody - Images



Western blot of canine MDCK lysate.



Western blot of ERp57 (Grp58): Lane 1: MWM, Lane 2: CHO-K1 lysate, Lane 3: Human Liver...

PDIA3 / ERp57 Antibody - References

- Hirano N., et al. *Biochem. Biophys. Res. Commun.* 204:375-382(1994).
 Bourdi M., et al. *Arch. Biochem. Biophys.* 323:397-403(1995).
 Koivunen P., et al. *Biochem. J.* 316:599-605(1996).
 Charnock-Jones D.S., et al. *Int. J. Biochem. Cell Biol.* 28:81-89(1996).
 Koivunen P., et al. *Genomics* 42:397-404(1997).