

PDIA3 / ERp57 Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS16650

Specification

PDIA3 / ERp57 Antibody (C-Terminus) - Product Information

Application	WB, IHC-P, IF
Primary Accession	P30101
Other Accession	2923
Reactivity	Human, Mouse, Rat, Monkey, Dog
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Calculated MW	56782
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200

PDIA3 / ERp57 Antibody (C-Terminus) - Additional Information

Gene ID 2923

Other Names

PDIA3, 58 kDa microsomal protein, ER protein 57, ERp60, ERp61, Disulfide isomerase ER-60, Endoplasmic reticulum P58, GRP58, HsT17083, p58, Phospholipase C-alpha, PI-PLC, ER protein 60, ER60, ERp57, GRP57, Protein disulfide-isomerase A3

Target/Specificity

Detects a band of 60 kDa by Western blot in the following canine, human, monkey, mouse, rat whole cell lysates.

Reconstitution & Storage

PBS, 20% glycerol, 0.05% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Precautions

PDIA3 / ERp57 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

PDIA3 / ERp57 Antibody (C-Terminus) - 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

[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)

Volume

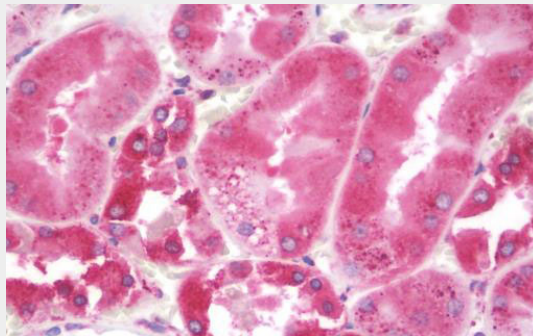
50 µl

PDIA3 / ERp57 Antibody (C-Terminus) - Protocols

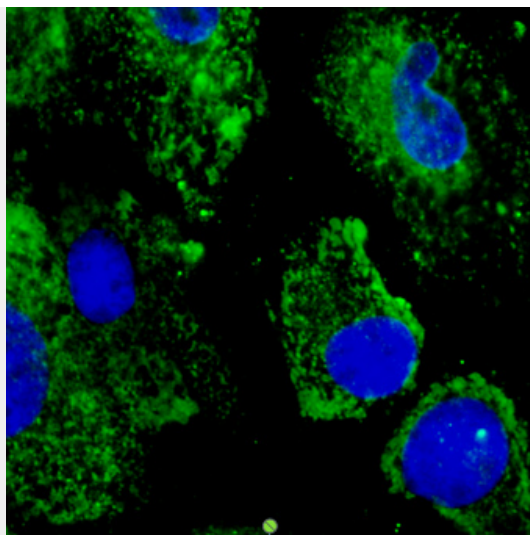
Provided below are standard protocols that you may find useful for product applications.

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

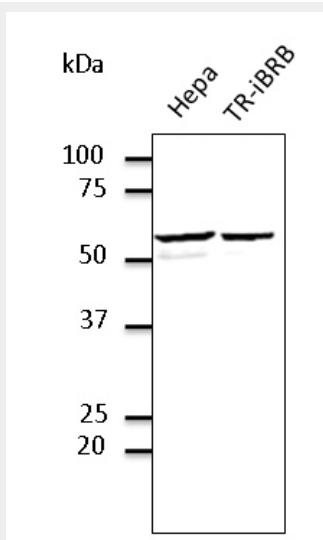
PDIA3 / ERp57 Antibody (C-Terminus) - Images



Anti-PDIA3 / ERp57 antibody IHC staining of human kidney.



Immunofluorescence.



Western blot.

PDIA3 / ERp57 Antibody (C-Terminus) - 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).