

Pdia3 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14980**Specification**

Pdia3 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	P27773
Other Accession	NM_007952 , NP_031978
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Goat, Sheep, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Goat, Sheep, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57kDa KDa

Pdia3 antibody - N-terminal region - Additional Information**Gene ID** 14827

Alias Symbol	58kDa, ERp57, ERp60, ERp61, Erp, Grp58, PDI, PDI-Q2, PI-PLC, PLC[a], Plca
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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, Erp, Erp60, Grp58

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Pdia3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Pdia3 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Pdia3 antibody - N-terminal region - Protein Information**Name** Pdia3**Synonyms** Erp, 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. 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.

Cellular Location

Endoplasmic reticulum {ECO:0000250|UniProtKB:P30101}. Endoplasmic reticulum lumen {ECO:0000250|UniProtKB:P11598}. Melanosome {ECO:0000250|UniProtKB:P30101}

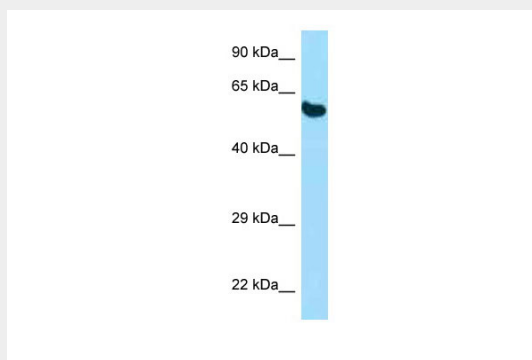
Tissue Location

In caput and cauda epididymal spermatozoa, detected in the acrosome and principal piece (at protein level)

Pdia3 antibody - N-terminal region - 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 antibody - N-terminal region - Images

WB Suggested Anti-Pdia3 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Pancreas

Pdia3 antibody - N-terminal region - References

Hempel W.M., et al. J. Immunol. 146:3713-3720(1991).
Wang W., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
Carninci P., et al. Science 309:1559-1563(2005).
Church D.M., et al. PLoS Biol. 7:E1000112-E1000112(2009).
Merrick B.A., et al. Electrophoresis 15:735-745(1994).