

Pdia3 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14980

Product Information

Application	WB
Primary Accession	P27773
Other Accession	NM_007952 , NP_031978
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Goat, Dog, Guinea Pig, Horse, Bovine, Sheep
Predicted Host	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Goat, Dog, Bovine, Sheep
Clonality	Rabbit
Calculated MW	Polyclonal 56678

Additional Information

Gene ID	14827
Alias Symbol Other Names	58kDa, ERp57, ERp60, ERp61, Erp, Grp58, PDI, PDI-Q2, PI-PLC, PLC[a], Plca 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.

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)

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).

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.