

Rabbit PDIA3 Polyclonal Antibody | anti-PDIA3 antibody

PDIA3 Antibody

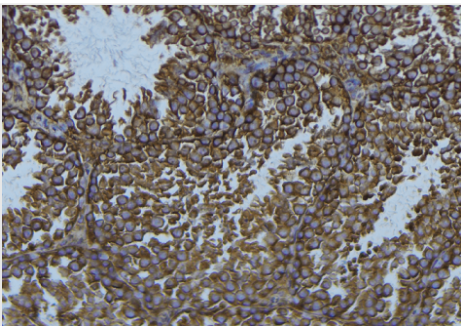
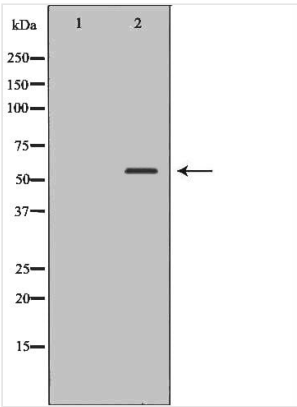
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326011	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PDIA3; Polyclonal Antibody; PDIA3 Antibody; 58 kDa glucose regulated protein; 58 kDa glucose-regulated protein; 58 kDa microsomal protein; Disulfide isomerase ER 60; Disulfide isomerase ER-60; Endoplasmic reticulum resident protein 57; Endoplasmic reticulum resident protein 60; ER p57; ER protein 57; ER protein 60; ERp 57; ERp57; ERp60; ERp61; Glucose Regulated Protein 58 Kd; GRP 57; GRP 58; GRP57; HsT17083; p58; PDIA 3; PDIA3_HUMAN; Phospholipase C alpha; PI PLC; Protein disulfide isomerase A3; Protein disulfide isomerase family A member 3; Protein disulfide-isomerase A3; anti-PDIA3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PDIA3 antibody detects endogenous levels of total PDIA3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	505
Applicable Applications for anti-PDIA3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PDIA3
Subcellular Location	Endoplasmic Reticulum Lumen. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Tissue Specificity	Detected in the flagellum and head region of spermatozoa (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (92%), Horse (100%), Sheep (92%), Rabbit (100%), Dog (100%), Chicken (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326011 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of Mouse liver tissue lysates, using PDIA3 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PDIA3 antibody

Description: Secretory proteins translocate into the endoplasmic reticulum (ER) after their synthesis where they are post-translationally modified and properly folded. To reach their native conformation, many secretory proteins require the formation of intra-or inter-molecular disulfide bonds (1). This process is called oxidative protein folding. Disulfide isomerase (PDI) has two thioredoxin homology domains and catalyzes the formation and isomerization of these disulfide bonds (2). Other ER resident proteins that possess the thioredoxin homology domains, including endoplasmic reticulum stress protein 57 (ERp57), constitute the PDI family (2). Erp57 interacts with calnexin and calreticulin (3) and is suggested to play a role in the isomerization of disulfide bonds on certain glycoproteins (3). Function: Was originally thought to be a phosphatidylinositol 4, 5-bisphosphate phosphodiesterase type I (phospholipase C-alpha). Subunit Structure: Subunit of the TAP complex, also known as the peptide loading complex (PLC). Can form disulfide-linked heterodimers with TAPBP. Interacts with ERP27 and CANX. Interacts with SERPINA2 and with the S and Z variants of SERPINA1. Interacts with ATP2A2 (By similarity). Similarity: Belongs to the protein disulfide isomerase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361657
NCBI GeneID	2923
NCBI Accession #	NP_005304.3
NCBI GenBank Nucleotide #	NM_005313.4
UniProt Accession #	P30101; Q13453; Q14255; Q8IYF8; Q9UMU7
Molecular Weight	Observed: 57 kDa Predicted: 57 kDa
NCBI Official Full Name	protein disulfide-isomerase A3
NCBI Official Synonym Full Names	protein disulfide isomerase family A member 3
NCBI Official Symbol	PDIA3
NCBI Official Synonym Symbols	P58; ER60; ERp57; ERp60; ERp61; GRP57; GRP58; PI-PLC; HsT17083; HEL-S-269; HEL-S-93n
NCBI Protein Information	protein disulfide-isomerase A3
UniProt Protein Name	Protein disulfide-isomerase A3
UniProt Gene Name	PDIA3
UniProt Synonym Gene Names	ERP57; ERP60; GRP58; p58; ER protein 57; ERp57; ER protein 60; ERp60

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pdia3-antibody-immunohistochemistry-western-blot-elisa/326011>