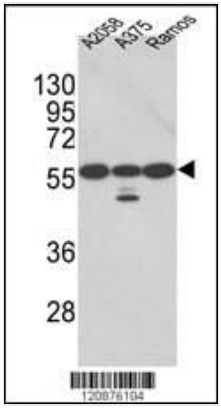
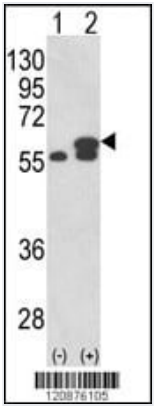
PDIA3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

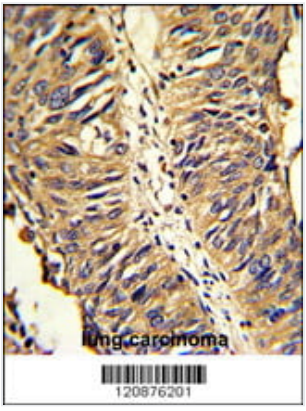
Product Name	PDIA3, Polyclonal Antibody
Full Product Name	PDIA3, ID (Protein Disulfide-isomerase A3, Disulfide Isomerase ER-60, Endoplasmic Reticulum Resident Protein 60, ER Protein 60, ERp60, 58kD Microsomal Protein, p58, Endoplasmic Reticulum Resident Protein 57, ER Protein 57, ERp57, 58kD Glucose-regulated Pr
Product Gene Name	anti-PDIA3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human PDIA3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	56,782 Da
OMIM	602046
3D Structure	ModBase 3D Structure for P30101
Immunogen	Synthetic peptide selected from the center region of human PDIA3 (KLH).
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-PDIA3 antibody	Antibodies; Nuclear Proteins
Applications Tested/Suitable for anti-PDIA3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PDIA3 antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PDIA3 antibody	MBS6492470 is an antibody targeting PDIA3. Also known as PDIA3, ID (Protein Disulfide-isomerase A3, Disulfide Isomerase ER-60, Endoplasmic Reticulum Resident Protein 60, ER Protein 60, ERp60, 58kD Microsomal Protein, p58, Endoplasmic Reticulum Resident Protein 57, ER Protein 57, ERp57, 58kD Glucose-regulated Pr. Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PDIA3 antibody	1. Vigneron, N., et.al., Eur. J. Immunol. 39(9), 2371-2376 (2009). 2. Xu, D., et.al., Am. J. Physiol. Lung Cell Mol. Physiol. 297(1), L44-L51 (2009).
Other Notes	Small volumes of anti-PDIA3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



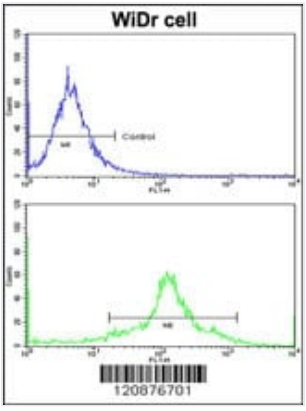
Western Blot (WB) of anti-PDIA3 antibody
Western blot analysis of PDIA3 Antibody (Center) in A2058, A375, Ramos cell line lysates (35ug/lane). PDIA3 (arrow) was detected using the purified Pab.(2ug/ml)



Western Blot (WB) of anti-PDIA3 antibody
Western blot analysis of PDIA3 (arrow) using rabbit polyclonal PDIA3 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PDIA3 gene (Lane 2).



Immunohistochemistry (IHC) of anti-PDIA3 antibody
Formalin-fixed and paraffin-embedded human lung carcinoma reacted with PDIA3 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-PDIA3 antibody
Flow cytometric analysis of widr cells using PDIA3 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDIA3. It may not necessarily be applicable to this product.

NCBI GI #	21361657
NCBI GeneID	2923
NCBI Accession #	NP_005304
UniProt Primary Accession #	P30101
UniProt Secondary Accession #	Q13453; Q14255; Q8IYF8; Q9UMU7
UniProt Related Accession #	P30101
GenBank Nucleotide #	NM_005313.4
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
UniProt Protein Name	Protein disulfide-isomerase A3

UniProt Synonym Protein Names	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
Protein Family	Protein disulfide-isomerase
UniProt Gene Name	PDIA3
UniProt Synonym Gene Names	ERP57; ERP60; GRP58; p58; ER protein 57; ERp57; ER protein 60; ERp60
UniProt Entry Name	PDIA3_HUMAN
NCBI Protein Information	protein disulfide-isomerase A3
NCBI Summary for PDIA3	This gene encodes a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. The protein was once thought to be a phospholipase; however, it has been demonstrated that the protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and this protein mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates. This protein also functions as a molecular chaperone that prevents the formation of protein aggregates. [provided by RefSeq, Dec 2016]
Research Articles on PDIA3	**1.** ERp57 is involved in sperm capacitation and spermatozoa-zona pellucida binding.
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