

Rabbit PDIA5 Polyclonal Antibody | anti-PDIA5 antibody

Anti-PDIA5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19331	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

PDIA5; Polyclonal Antibody; Anti-PDIA5 Antibody; PDIR; Protein disulfide-isomerase A5; EC 5. 3. 4. 1; Protein disulfide isomerase-related protein; protein disulfide isomerase family A member 5; anti-PDIA5 antibody

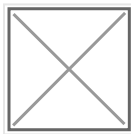
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for PDIA5 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-PDIA5 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.1-0.25ug/ml Human, Mouse, Rat IHC-P: 2-5ug/ml Human, Mouse, Rat ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x106 cells Human Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human PDIA5 recombinant protein (Position: R46-Y481).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 10. Flow Cytometry analysis of U20S cells using anti-PDIA5 antibody (AAA19331). Overlay histogram showing U20S cells stained with AAA19331 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PDIA5 Antibody (AAA19331, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



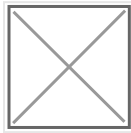
IF (Immunofluorescence)

Figure 9. IF analysis of PDIA5 using anti- PDIA5 antibody (AAA19331).PDIA5 was detected in immunocytochemical section of CACO-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- PDIA5 Antibody (AAA19331) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 8. IHC analysis of PDIA5 using anti-PDIA5 antibody (AAA19331).PDIA5 was detected in paraffin-embedded section of human adrenocortical adenoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-PDIA5 Antibody (AAA19331) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 7. IHC analysis of PDIA5 using anti-PDIA5 antibody (AAA19331).PDIA5 was detected in paraffin-embedded section of human ovarian adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-PDIA5 Antibody (AAA19331) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 6. IHC analysis of PDIA5 using anti-PDIA5 antibody (AAA19331).PDIA5 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-PDIA5 Antibody (AAA19331) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of PDIA5 using anti-PDIA5 antibody (AAA19331).PDIA5 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-PDIA5 Antibody (AAA19331) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-PDIA5 antibody	This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal ER-signal sequence, three catalytically active thioredoxin (TRX) domains, a TRX-like domain, and a C-terminal ER-retention sequence. The N-terminal TRX-like domain is the primary binding site for the major ER chaperone calreticulin and possibly other proteins and substrates as well. Alternative splicing results in multiple protein- and non-protein-coding transcript variants.
References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 5/9/2016. 2. Hayano, T., Kikuchi, M. Molecular cloning of the cDNA encoding a novel protein disulfide isomerase-related protein (PDIR). FEBS Lett. 372: 210-214, 1995. 3. Higa, A., Taouji, S., Lhomond, S., Jensen, D., Fernandez-Zapico, M. E., Simpson, J. C., Pasquet, J. -M., Schekman, R., Chevet, E. Endoplasmic reticulum stress-activated transcription factor ATF6-alpha requires the disulfide isomerase PDIA5 to modulate chemoresistance. Molec. Cell. Biol. 34: 1839-1849, 2014.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5803121
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NCBI GeneID	10954
NCBI Accession #	NP_006801
NCBI GenBank Nucleotide #	NM_006810
UniProt Accession #	Q14554 ; Q9BV43 ; D3DN95
Molecular Weight	30,124 Da
NCBI Official Full Name	protein disulfide-isomerase A5
NCBI Official Synonym Full Names	protein disulfide isomerase family A, member 5
NCBI Official Symbol	PDIA5
NCBI Official Synonym Symbols	PDIR
NCBI Protein Information	protein disulfide-isomerase A5; protein disulfide isomerase-associated 5; protein disulfide isomerase-related protein
UniProt Protein Name	Protein disulfide-isomerase A5
UniProt Gene Name	PDIA5
UniProt Synonym Gene Names	PDIR
UniProt Entry Name	PDIA5_HUMAN

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/pdia5-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-direct-elisa-elisa/19331>