

Basic Information

Product Name	Anti-PDIA6 Antibody	
Gene Name	PDIA6	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human PDIA6 recombinant protein (Position: L20-L440).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	48KD	
Dilution Ratios	Western blot(WB): 1:2000-5000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow cytometry (FCM): 1-3 μ g/1x10 ⁶ cells ELISA: 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

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, two catalytically active thioredoxin (TRX) domains, a TRX-like domain, and a C-terminal ER-retention sequence. This protein inhibits the aggregation of misfolded proteins and exhibits both isomerase and chaperone activity. Alternative splicing results in multiple transcript variants encoding different isoforms.

Selected Validation Data

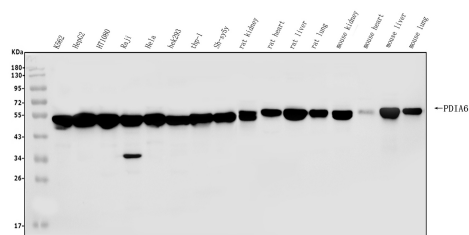


Figure 1. Western blot analysis of anti- PDIA6 antibody (A03813-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human HEPG2 whole cell lysates, Lane 3: human HT1080 whole cell lysates, Lane 4: human Raji whole cell lysates, Lane 5: human HELA whole cell lysates, Lane 6: human HEK293 whole cell lysates, Lane 7: human THP-1 whole cell lysates, Lane 8: human SH-SY5Y whole cell lysates, Lane 9: rat kidney tissue lysate, Lane 10: rat heart tissue lysates, Lane 11: rat liver tissue lysates, Lane 12: rat lung tissue lysates, Lane 13: mouse kidney tissue lysate, Lane 14: mouse heart tissue lysates, Lane 15: mouse liver tissue lysates, Lane 16: mouse lung tissue lysates. Use rabbit anti- PDIA6 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for PDIA6 at approximately 50KD. The expected band size for PDIA6 at 50KD.

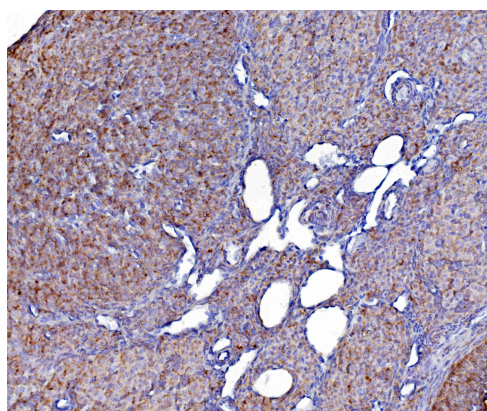


Figure 2. IHC analysis using anti- PDIA6 antibody (A03813-2). detected in paraffin-embedded section of mouse ovary tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

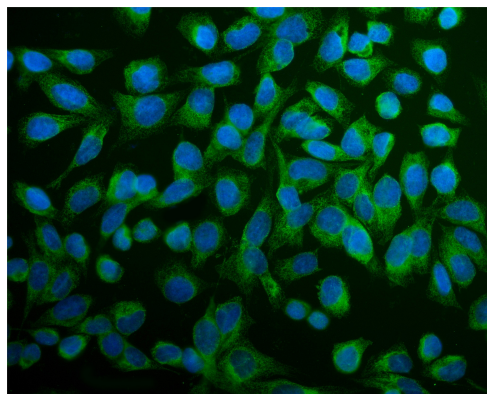


Figure 7. ICC analysis using anti- PDIA6 antibody (A03813-2). was detected in immersion fixed U2OS cell line. Cells were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog # BA1127) and counterstained with DAPI (blue).

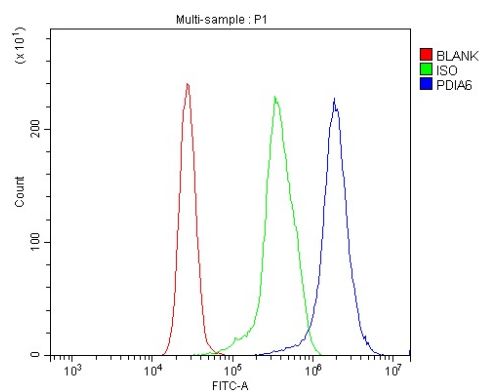


Figure 8. Flow cytometry analysis of K562 cell (1x10⁶) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).