

Basic Information

Product Name	Anti-PDIA2 Antibody	
Gene Name	PDIA2	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human PDIP/PDIA2 recombinant protein (Position: Y117-D492).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	58 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000

Storage

12 months from date of receipt, -20°C as supplied.

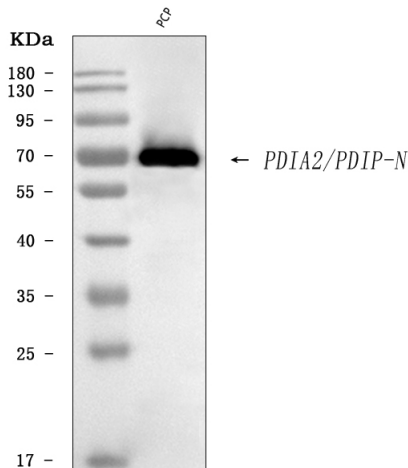
Background Information

Protein disulfide isomerase family A member 2 is a protein that in humans is encoded by the PDIA2 gene. 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, two TRX-like domains and a C-terminal ER-retention sequence. The protein plays a role in the folding of nascent proteins in the endoplasmic reticulum by forming disulfide bonds through its thiol isomerase, oxidase, and reductase activity. The encoded protein also possesses estradiol-binding activity and can modulate intracellular estradiol levels.

Reference

Anti-PDIA2 Antibody被引用在1文献中。

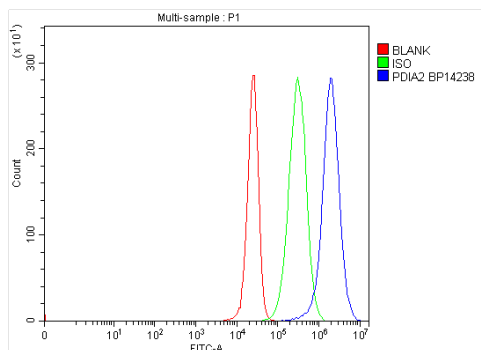
Selected Validation Data



Western blot analysis of PDIA2 using anti-PDIA2 antibody (A03275-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: PCP whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PDIA2 antigen affinity purified polyclonal antibody (A03275-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PDIA2 at approximately 58 kDa. The expected band size for PDIA2 is at 58 kDa.



Flow Cytometry analysis of 293T cells using anti-PDIA2 antibody (A03275-1).

Overlay histogram showing 293T cells stained with A03275-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PDIA2 Antibody (A03275-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.