Product datasheet

Anti-PDIA6 Antibody

Catalog Number: *A03813-2*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-PDIA6 Antibody
Gene Name	PDIA6
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml 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	48 kDa
Dilution Ratios	Western blot (WB): 1:2000-5000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (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℃ as supplied.

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.

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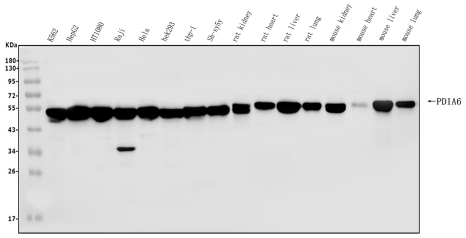
Reference

Anti-PDIA6 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of PDIA6 using anti-PDIA6 antibody (A03813-2). The sample well of each lane was loaded with 30 ug 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 lysates,
Lane 10: rat heart tissue lysates,
Lane 11: rat liver tissue lysates,
Lane 12: rat lung tissue lysates,
Lane 13: mouse kidney tissue lysates,
Lane 14: mouse heart tissue lysates,
Lane 15: mouse liver tissue lysates,
Lane 16: mouse lung tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PDIA6 antigen affinity purified polyclonal antibody (A03813-2) 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 PDIA6 at approximately 48 kDa. The expected band size for PDIA6 is at 48 kDa.

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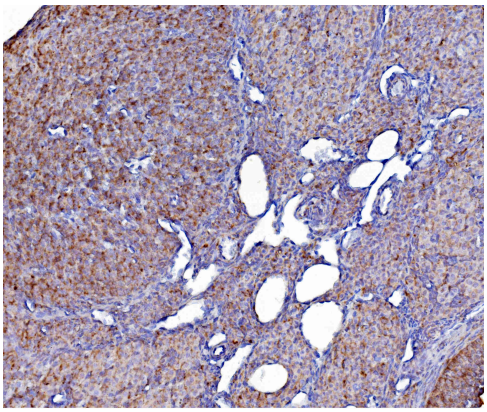
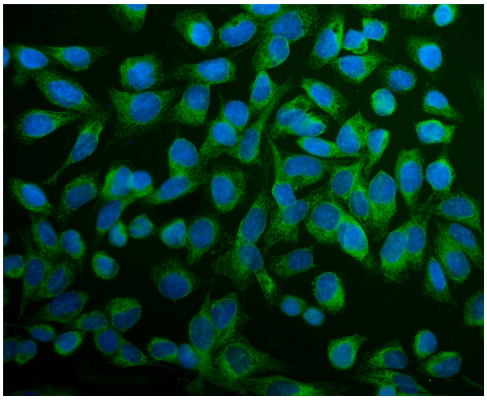
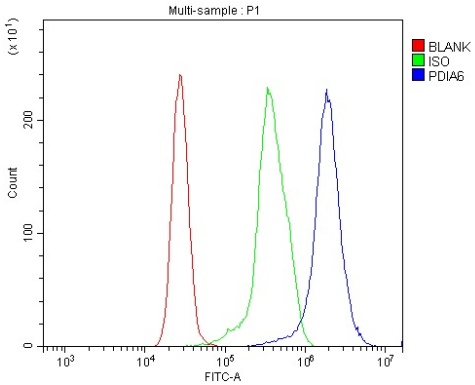


IHC analysis of PDIA6 using anti-PDIA6 antibody (A03813-2).
PDIA6 was detected in a paraffin-embedded section of mouse ovary tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-PDIA6 Antibody (A03813-2) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of PDIA6 using anti-PDIA6 antibody (A03813-2).
PDIA6 was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-PDIA6 Antibody (A03813-2) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of K562 cells using anti-PDIA6 antibody (A03813-2).
Overlay histogram showing K562 cells stained with A03813-2 (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-PDIA6 Antibody (A03813-2) 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.