

PDIA6 Rabbit mAb

Catalog No: #49340

Package Size: #49340-1 50ul #49340-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

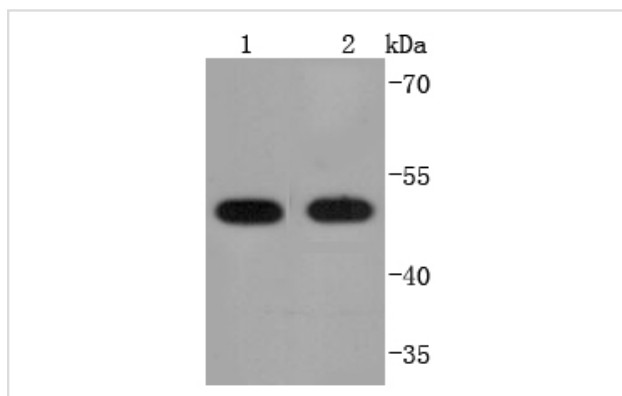
Description

Product Name	PDIA6 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JF0974
Purification	ProA affinity purified
Applications	WB, ICC/IF, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	Endoplasmic reticulum protein 5 antibody ER protein 5 antibody ERp5 antibody P5 antibody Pdia6 antibody PDIA6_HUMAN antibody Protein disulfide isomerase A6 antibody Protein disulfide isomerase associated 6 antibody Protein disulfide isomerase family A member 6 antibody Protein disulfide isomerase P5 antibody Protein disulfide isomerase related protein antibody Protein disulfide-isomerase A6 antibody Thioredoxin domain containing 7 (protein disulfide isomerase) antibody Thioredoxin domain containing protein 7 antibody Thioredoxin domain-containing protein 7 antibody TXNDC7 antibody
Accession No.	Swiss-Prot#:Q15084
Uniprot	Q15084
GeneID	10130;
Calculated MW	48 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

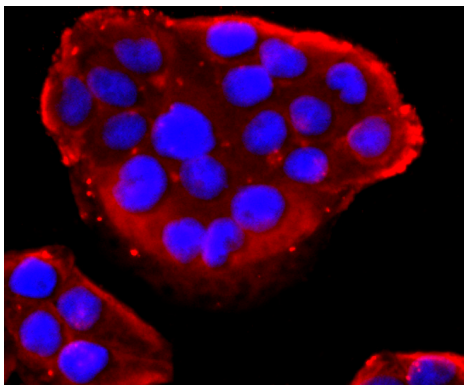
Application Details

WB: 1:1,000-1:2,000 ICC: 1:100-1:500FC: 1:50-1:100

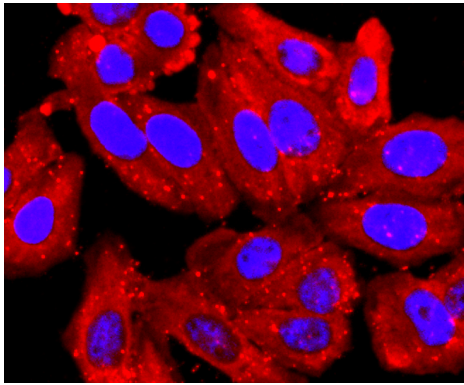
Images



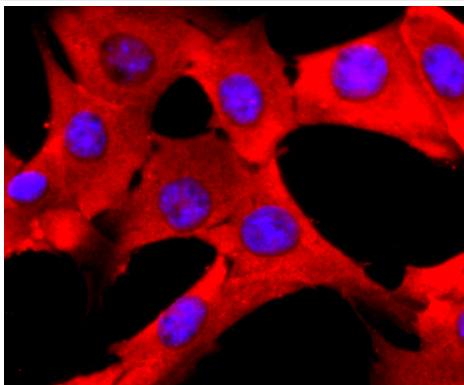
Western blot analysis of PDIA6 on different lysates using anti-PDIA6 antibody at 1/1,000 dilution. Positive control:
Lane 1: HepG2 Lane 2: K562



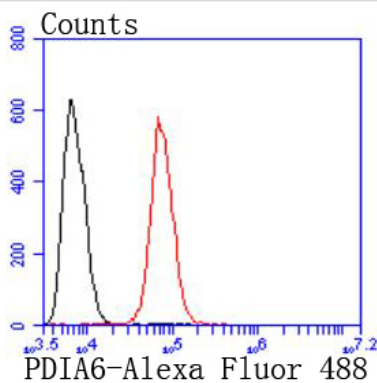
ICC staining PDIA6 in HeLa cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PDIA6 in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PDIA6 in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HeLa cells with PDIA6 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Endoplasmic reticulum proteins (ERPs) are widely expressed proteins that localize to the ER and may act as proteases, protein disulfide isomerases, thiol-disulfide oxidases or phospholipases. ERp5, also known as PDIA6 (protein disulfide isomerase family A, member 6) or TXNDC7 is a 440 amino acid protein that contains two thioredoxin domains and belongs to the protein disulfide isomerase family. Localized to the melanosome, as well as to the lumen of the endoplasmic reticulum, ERp5 functions to catalyze the rearrangement of disulfide bonds in a variety of different proteins. Via its catalytic activity, ERp5 is able to reduce the disulfide bond that binds MICA to tumor cells, thereby releasing MICA and reducing the rate of tumor expansion. Multiple isoforms of ERp5 exist due to alternative splicing events.

References

Note: This product is for in vitro research use only