

**PDIA6 Antibody (Center K159)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6662b**

**Specification**

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**PDIA6 Antibody (Center K159) - Product Information**

Application	IF, WB, IHC-P, FC,E
Primary Accession	<a href="#">Q15084</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	144-172

**PDIA6 Antibody (Center K159) - Additional Information**

**Gene ID** 10130

**Other Names**

Protein disulfide-isomerase A6, Endoplasmic reticulum protein 5, ER protein 5, ERp5, Protein disulfide isomerase P5, Thioredoxin domain-containing protein 7, PDIA6, ERP5, P5, TXNDC7

**Target/Specificity**

This PDIA6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 144-172 amino acids from the Central region of human PDIA6.

**Dilution**

IF~~1:100  
WB~~1:1000  
IHC-P~~1:100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PDIA6 Antibody (Center K159) is for research use only and not for use in diagnostic or therapeutic procedures.

**PDIA6 Antibody (Center K159) - Protein Information**

**Name** PDIA6

### Synonyms ERP5, P5, TXNDC7

**Function** May function as a chaperone that inhibits aggregation of misfolded proteins (PubMed:[12204115](#)). Negatively regulates the unfolded protein response (UPR) through binding to UPR sensors such as ERN1, which in turn inactivates ERN1 signaling (PubMed:[24508390](#)). May also regulate the UPR via the EIF2AK3 UPR sensor (PubMed:[24508390](#)). Plays a role in platelet aggregation and activation by agonists such as convulxin, collagen and thrombin (PubMed:[15466936](#)).

### Cellular Location

Endoplasmic reticulum lumen. Cell membrane. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:[12643545](#))

### Tissue Location

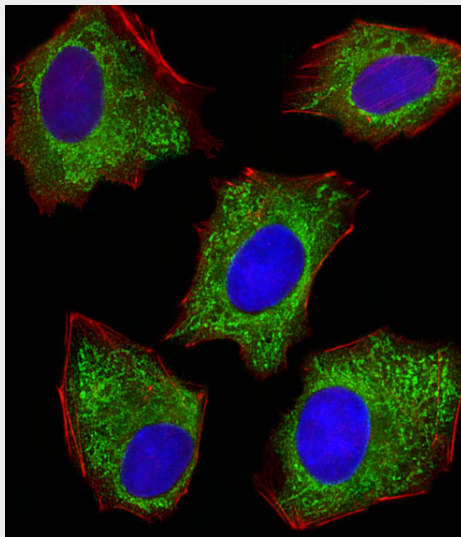
Expressed in platelets (at protein level).

## PDIA6 Antibody (Center K159) - Protocols

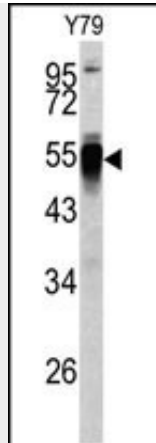
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

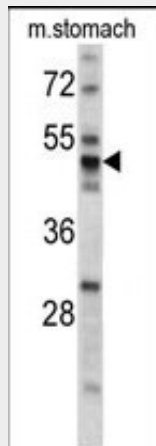
## PDIA6 Antibody (Center K159) - Images



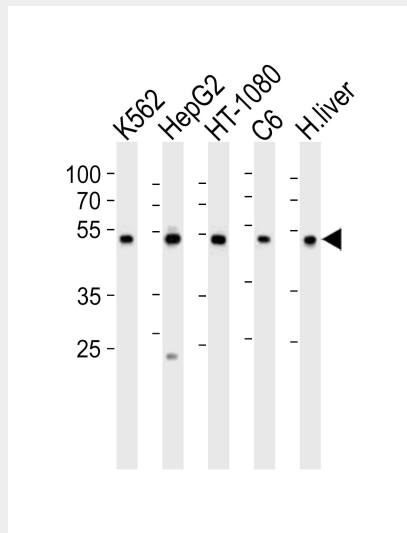
Fluorescent image of HepG2 cells stained with XAF1 PDIA6 Antibody (Center K159)(Cat#AP6662b). AP6662b was diluted at 1:100 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



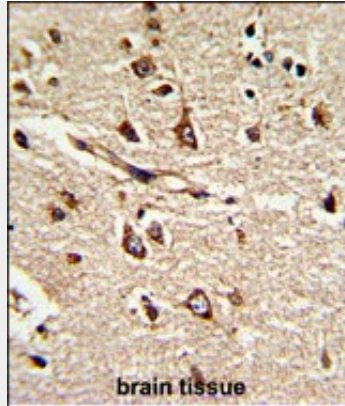
Western blot analysis of PDIA6 antibody (Center K159) (Cat.# AP6662b) in Y79 cell line lysates (35ug/lane). PDIA6 (arrow) was detected using the purified Pab.



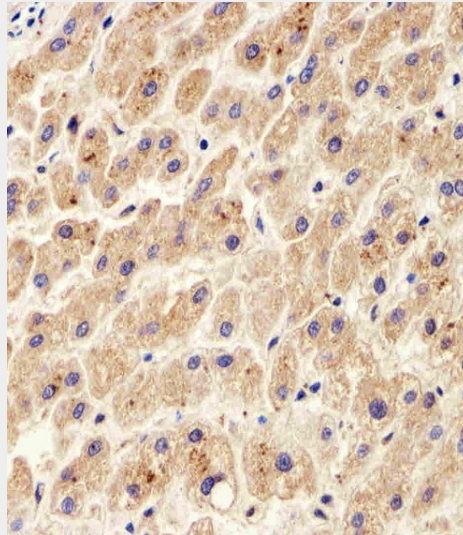
Western blot analysis of PDIA6 antibody (Center K159) (Cat.# AP6662b) in mouse stomach tissue lysates (35ug/lane). PDIA6 (arrow) was detected using the purified Pab.



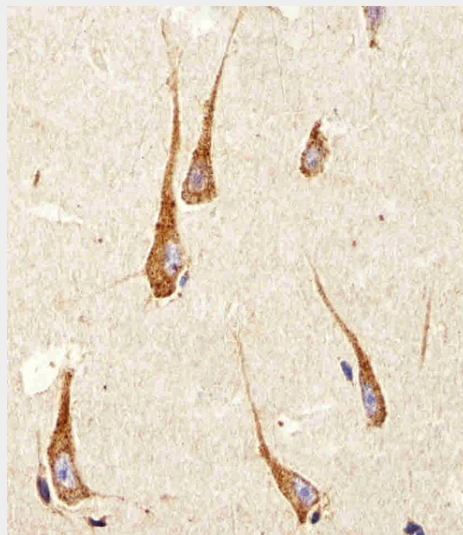
Western blot analysis of lysates from K562, HepG2, HT-1080, rat C6 cell line and human liver tissue lysate (from left to right), using PDIA6 Antibody (Center K159)(Cat. #AP6662b). AP6662b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



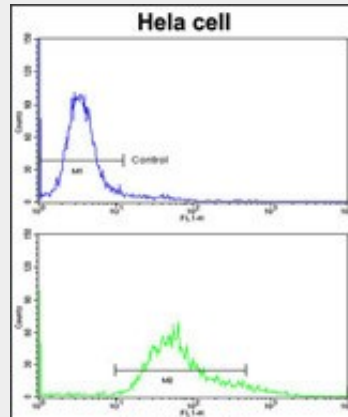
Formalin-fixed and paraffin-embedded human brain tissue reacted with PDIA6 Antibody (Center K159), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Immunohistochemical analysis of paraffin-embedded H. liver section using PDIA6 Antibody (Center K159)(Cat#AP6662b). AP6662b was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H. brain section using PDIA6 Antibody (Center K159)(Cat#AP6662b). AP6662b was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Flow cytometric analysis of hela cells using PDIA6 Antibody (Center K159)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **PDIA6 Antibody (Center K159) - Background**

Protein disulfide isomerases (EC 5.3.4.1), such as PDIA6, are endoplasmic reticulum (ER) resident proteins that catalyze formation, reduction, and isomerization of disulfide bonds in proteins and are thought to play a role in folding of disulfide-bonded proteins.

#### **PDIA6 Antibody (Center K159) - References**

Hayano,T.,Gene 164 (2), 377-378 (1995)