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PDIA6 Antibody (Center D251)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6662c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q15084
Other Accession	Q63081, Q922R8
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20200
Calculated MW	48121
Antigen Region	236-264

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 236-264 amino acids from the Central region of human PDIA6.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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 D251) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

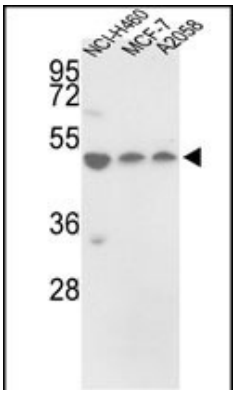
Background

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.

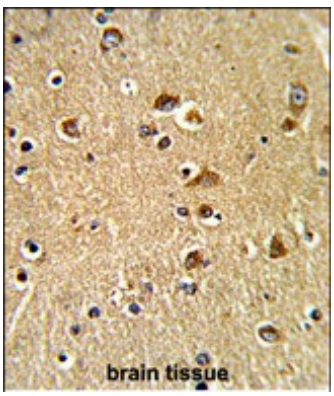
References

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

Images

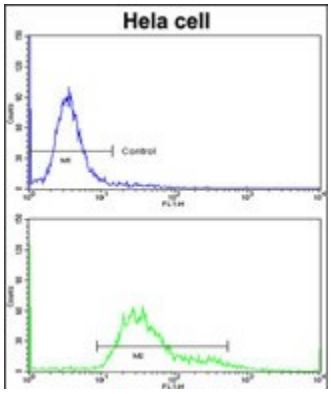


Western blot analysis of PDIA6 Antibody (Center D251) (Cat. #AP6662c) in NCI-H460, MCF-7, A2058 cell line lysates (35ug/lane). PDIA6 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with PDIA6 Antibody (Center D251), 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.

Flow cytometric analysis of hela cells using PDIA6 Antibody (Center D251)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated



goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.