

For Research Use Only

PRDX6 Polyclonal antibody

Catalog Number: 13585-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

13585-1-AP

Size:

150ul, Concentration: 550 µg/ml by Nanodrop and 313 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4512

GenBank Accession Number:

BC035857

GeneID (NCBI):

9588

Full Name:

peroxiredoxin 6

Calculated MW:

224 aa, 25 kDa

Observed MW:

25-30 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

IF 1:50-1:500

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, HeLa cells, SH-SY5Y cells

IP : HeLa cells,

IHC : human brain tissue,

IF : HeLa cells,

Background Information

PRDX6 (Peroxiredoxin-6), also named as AOP2 or KIAA0106, is a unique member of the peroxiredoxin family of antioxidants. PRDX6 is highly expressed in liver and protects cells from oxidative damage by reducing H₂O₂ and various lipid Peroxides (PMID: 17382207). It can form a dimer (PMID:20500660). PRDX6 is expressed in all major organs, with a particularly high level in lung (PMID:15890616). Prdx6 is detected at approximately 24 to 28 kDa, and can be monosumoylated with the molecular mass of about 40 kDa (PMID: 24910119).

Notable Publications

Author	Pubmed ID	Journal	Application
Chenhao Xu	33161253	Bioorg Chem	WB
Siddhesh Aras	25315652	Mitochondrion	WB
Shuaipeng Ma	26560306	Antioxid Redox Signal	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

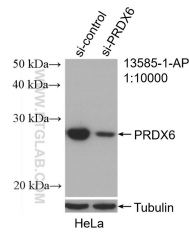
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

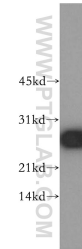
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

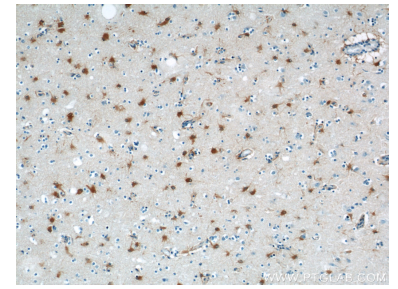
Selected Validation Data



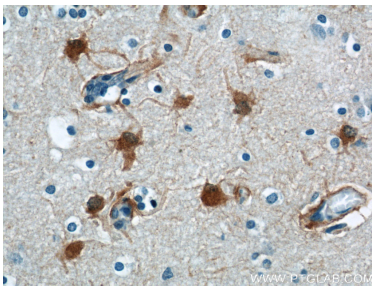
WB result of PRDX6 antibody (13585-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRDX6 transfected HeLa cells.



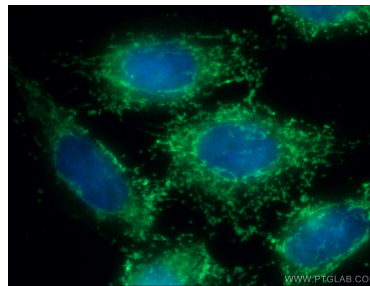
A549 cells were subjected to SDS PAGE followed by western blot with 13585-1-AP (PRDX6 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



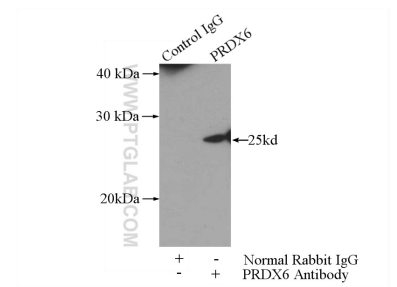
Immunohistochemical analysis of paraffin-embedded human brain using 13585-1-AP (PRDX6 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 13585-1-AP (PRDX6 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20 Ethanol) fixed HeLa cells using 13585-1-AP (PRDX6 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-PRDX6 (IP:13585-1-AP, 3ug; Detection:13585-1-AP 1:500) with HeLa cells lysate 2800ug.