

For Research Use Only

PRDX6 Monoclonal antibody

Catalog Number: 67499-1-Ig

Featured Product



Basic Information

Catalog Number:

67499-1-Ig

GenBank Accession Number:

BC035857

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

GeneID (NCBI):

9588

Source:

Mouse

UNIPROT ID:

P30041

Isotype:

IgG2a

Full Name:

peroxiredoxin 6

Purification Method:

Protein A purification

CloneNo.:

3C12D3

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:1000-1:4000

IF/ICC 1:400-1:1600

Immunogen Catalog Number:

AG4727

Calculated MW:

224 aa, 25 kDa

Observed MW:

25-30 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Species Specificity:

human, pig

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: LNCaP cells, HAP1 cells, A549 cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, pig brain tissue, HepG2 cells

IHC: human liver tissue,

IF/ICC: HeLa cells, HAP1

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).

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

*** 20ul sizes contain 0.1% BSA

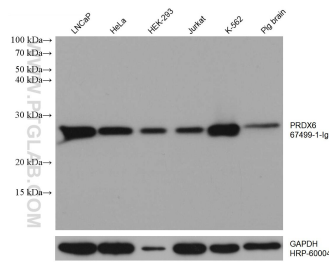
For technical support and original validation data for this product please contact:

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

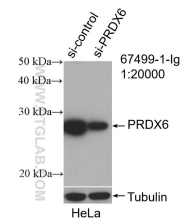
E: proteintech@ptglab.com
W: ptglab.com

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

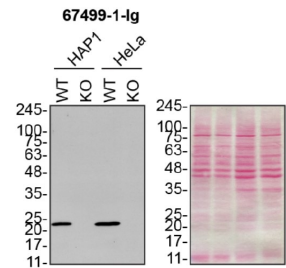
Selected Validation Data



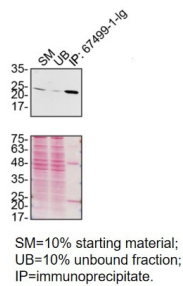
Various lysates were subjected to SDS PAGE followed by western blot with 67499-1-Ig (PRDX6 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



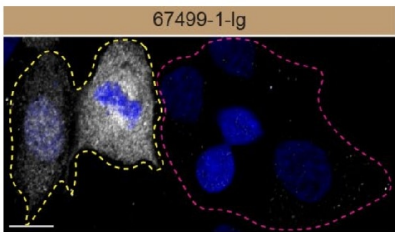
WB result of PRDX6 antibody (67499-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRDX6 transfected HeLa cells.



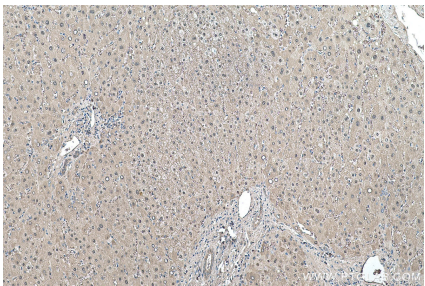
HAP1 and HeLa (WT and PRDX6 KO) lysates prepared with RIPA buffer, 25ug protein loaded. 67499-1-Ig incubated at 1:1000 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



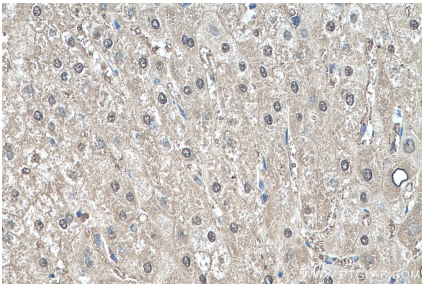
HAP1 lysates prepared and IP of peroxidoxin 6 performed using 2.0 µg of 67499-1-Ig coupled to protein G- Sepharose beads. Ponceau stained transfers shown for each blot. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



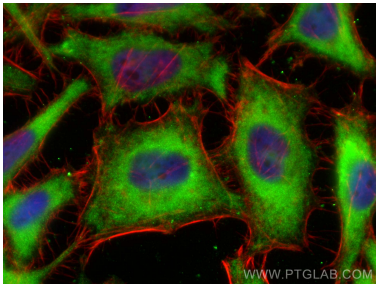
HAP1 WT cells (yellow outline) and PRDX6 KO cells (red outline) labelled with a green or a far red fluorescence dye, respectively. Cells fixed with 4% PFA and stained with 67499-1-Ig at 1:1000 plus DAPI. Bars = 10 µm. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67499-1-Ig (PRDX6 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67499-1-Ig (PRDX6 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PRDX6 antibody (67499-1-Ig, Clone: 3C12D3) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).