For Research Use Only

PRDX6 Monoclonal antibody

Catalog Number:67499-1-Ig Featured Product

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
67499-1-Ig

Concentration:
1000 ug/ml

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG4727

GenBank Accession Number:
BC035857

GeneID (NCBI):
9588

UNIPROT ID:
P30041

Full Name:
peroxiredoxin 6

Calculated MW:
224 aa, 25 kDa

Observed MW:
25-30 kDa

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

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

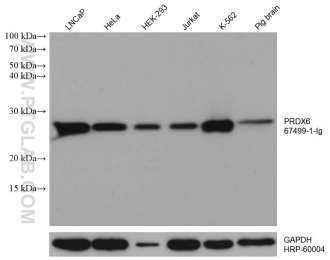
PRDX6 (Peroxiredoxin-6), also named as AOP2 or KIAA0106, is a unique member of the peroxiredoxin family of antioxidants. PRDX6 is highly expressed in liver and protects cells from oxidative damage by reducing H2O2 and various lipid Peroxides (PMID: 17382207). It can form a dimer(PMID:20500660).PRDX6 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

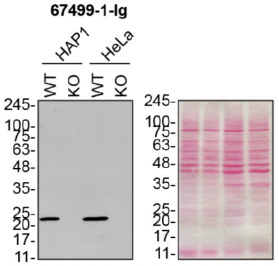
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

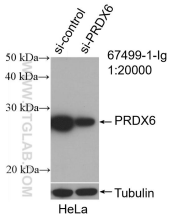
Selected Validation Data



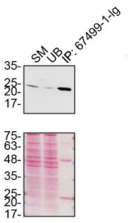
Various lysates were subjected to SDS PAGE followed by western blot with 67499-1-Ig (PRDX6 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



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.

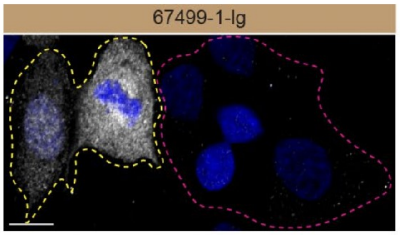


WB result of PRDX6 antibody (67499-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRDX6 transfected HeLa cells.

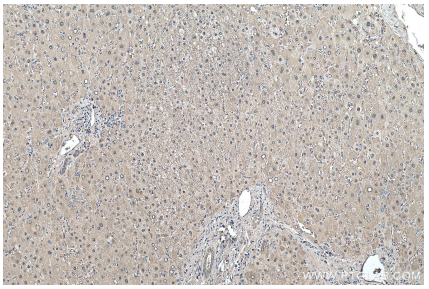


SM=10% starting material;
UB=10% unbound fraction;
IP=immunoprecipitate.

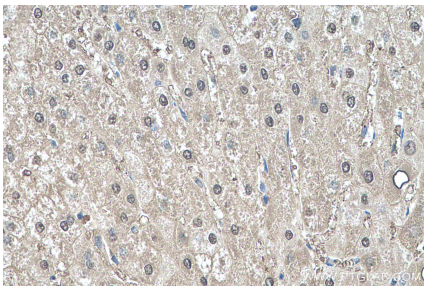
HAP1 lysates prepared and IP of peroxidoxin 6 performed using 2.0 µg of 67499-1-Ig coupled to protein G- Sepharose beads. Ponceau stained transfers shown for each blot. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility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



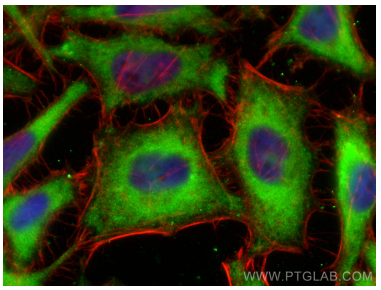
HAP1 WT cells (yellow outline) and PRDX6 KO cells (red outline) labelled with a green or a far red fluorescence dye, respectively. Cells fixed with 4% PFA and stained with 67499-1-Ig at 1:1000 plus DAPI. Bars = 10 µm. Data provided by YCharOS, an open science company with a mission to validate commercial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