For Research Use Only

PRDX6 Polyclonal antibody, PBS Only

Catalog Number:13585-1-PBS Featured Product

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
13585-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4512

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:
Antigen affinity purification

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

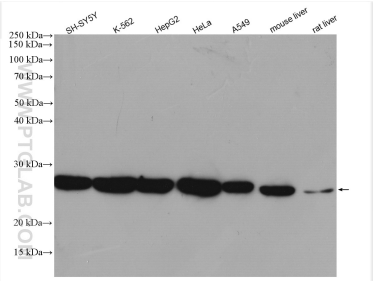
PRDX6 (Peroxiredoxin-6), also named as AOP2 or KIAA0106, is a unique member of the peroxiredoxin family of antioxidants. PRDX6 is highly expressed in liver and protects cells from oxidative damage by reducing H_2O_2 and various lipid Peroxides (PMID: 17382207). It can form a dimer(PMID:20500660).PRDX6 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

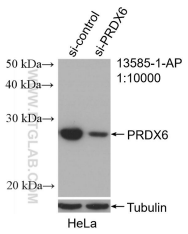
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

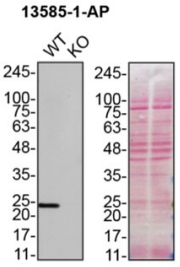
Selected Validation Data



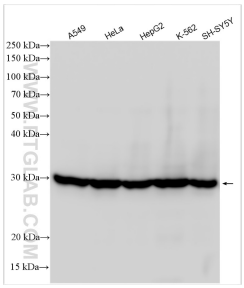
Various lysates were subjected to SDS PAGE followed by western blot with 13585-1-AP (PRDX6 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.



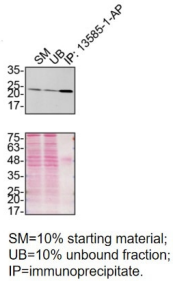
WB result of PRDX6 antibody (13585-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRDX6 transfected HeLa cells. This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.



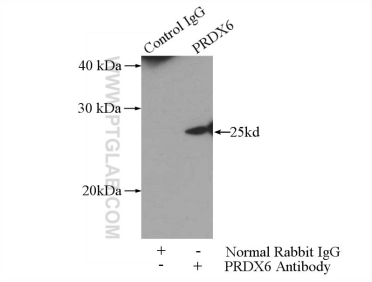
HAP1 (WT and PRDX6 KO) lysates prepared with RIPA buffer, 25 µg protein loaded. 13585-1-AP incubated at 1:2000 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency. This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.



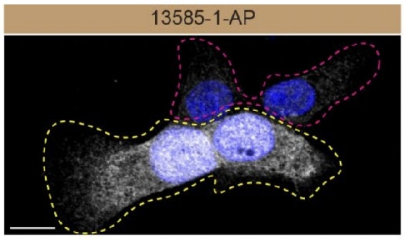
Various lysates were subjected to SDS PAGE followed by western blot with 13585-1-AP (PRDX6 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.



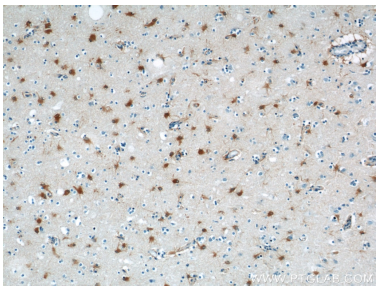
HAP1 lysates prepared and IP of peroxidoxin 6 performed using 2.0 µg of 13585-1-AP coupled to protein A- Sepharose beads. Ponceau stained transfers shown for each blot. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency. This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.



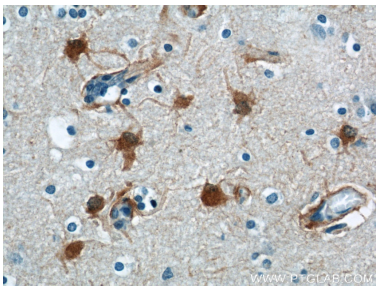
IP result of anti-PRDX6 (IP:13585-1-AP, 3ug; Detection:13585-1-AP 1:500) with HeLa cells lysate 2800ug. This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.



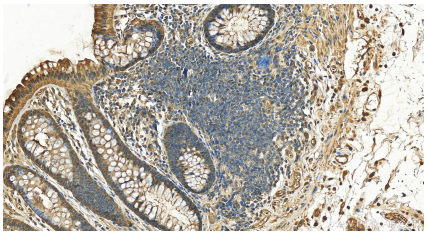
HAP1 WT cells (yellow outline) and PRDX6 KO cells (red outline) labelled with a green or a far red fluorescence dye, respectively. Cells fixed with 4% PFA and stained with 13585-1-AP at 1:300 plus DAPI. Bars = 10 µm. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency. This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer

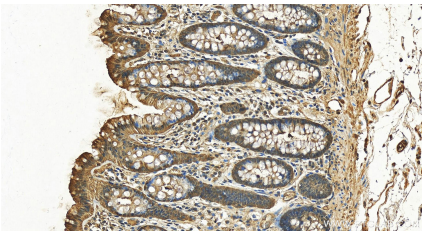


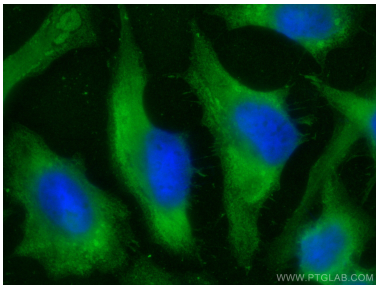
Immunohistochemical analysis of paraffin-embedded human brain using 13585-1-AP (PRDX6 antibody) at dilution of 1:50 (under 10x lens). This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.



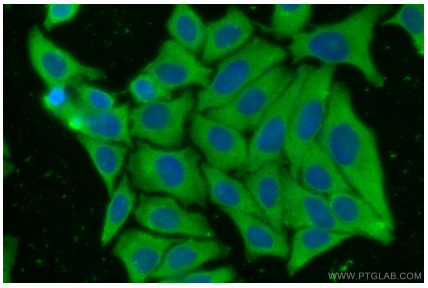
Immunohistochemical analysis of paraffin-embedded human brain using 13585-1-AP (PRDX6 antibody) at dilution of 1:50 (under 40x lens). This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.







Immunohistochemical analysis of paraffin-embedded human normal colon slide using 13585-1-AP (PRDX6 antibody) at dilution of 1:1200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed 48 HepG2 cells using PRDX6 antibody (13585-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded human normal colon slide using 13585-1-AP (PRDX6 antibody) at dilution of 1:1200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using PRDX6 antibody (13585-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 13585-1-PBS in a different storage buffer formulation.