Nur für Forschungszwecke

PRDX1 Monoklonaler Antikörper

Katalog-Nr.:66820-1-Ig Vorgestelltes Produkt 3 Publikationen

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Allgemeine Informationen

Katalog-Nr.:
66820-1-Ig

Größe:
150ul , Konzentration: 2300 μg/ml von Nanodrop und 1000 μg/ml durch die Bradford-Methode mit BSA als Standard;

Wirt:
Maus

Isotyp:
IgG1

Immunogen Katalognummer:
AG8821

GenBank-Zugangsnummer:
BC007063

GeneID (NCBI):
5052

Vollständiger Name:
peroxiredoxin 1

Berechneté Masse:
199 aa, 22 kDa

Beobachteté Masse:
23 kDa

Reinigungsmethode:
Protein-A-Reinigung

CloneNo.:
2B2A2

Empfohlene Verdünnungen:
WB 1:5000-1:50000
IHC 1:1000-1:4000
IF 1:200-1:800

Anwendungen

Geprüfte Anwendungen:
IF, IHC, WB, ELISA

In Publikationen genannte Anwendungen:
CoIP, IP, WB

Getestete Reaktivität:
Human, Maus, Ratte

Zitierte Arten:
Human, Maus, Ratte

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

WB : HeLa-Zellen, 4T1-Zellen, Caco-2-Zellen, HEK-293-Zellen, Jurkat-Zellen, LNCaP-Zellen, MCF-7-Zellen, NIH/3T3-Zellen, U2OS-Zellen

IHC : humanes Leberkarzinomgewebe,

IF : humanes Leberkarzinomgewebe,

Hintergrundinformationen

PRDX1(Peroxiredoxin-1), also named as PAGA, PAGB, TDPX2, PAG or NKEF-A, belongs to the ahpC/TSA family. PRDX1 is a thiol reductase that plays critical roles in oxidative and thermal stress defense mechanisms through its abilities to metabolize H2O2 and act as a molecular chaperone, respectively. PRDX1 might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H2O2 ((PMID: 9497357)). It reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation. PRDX1 can form a dimer, and also can be phosphorylated on Thr-90 during the M-phase, which leads to a more than 80% decrease in enzymatic activity (PMID: 22583657, 11986303).

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Ling Zhu	36290756	Antioxidants (Basel)	WB
Lin Lv	34260286	J Virol	WB, CoIP
Zi-Jie Zhang	37101626	Heliyon	IP

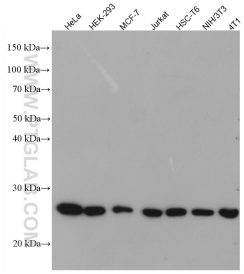
Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C lagerung

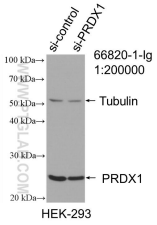
***** 20ul-Größen enthalten 0.1% BSA**

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

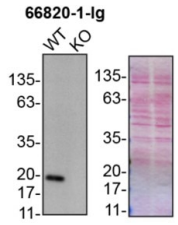
Ausgewählte Validierungsdaten



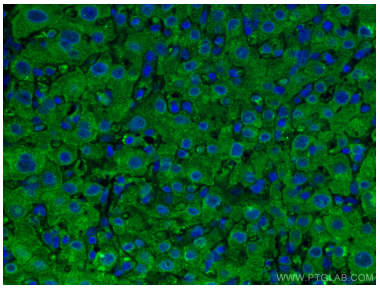
Various lysates were subjected to SDS PAGE followed by western blot with 66820-1-Ig (PRDX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



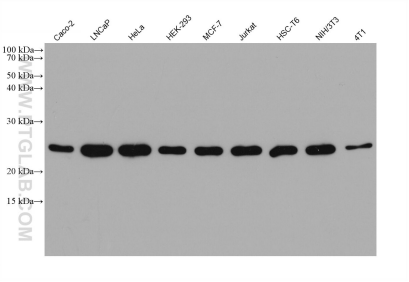
WB result of PRDX1 antibody (66820-1-Ig; 1:200000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRDX1 transfected HEK-293 cells.



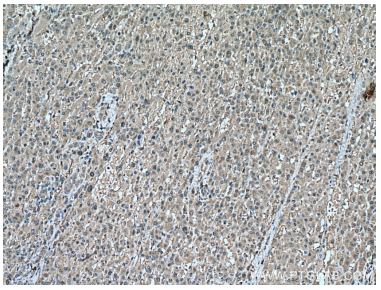
U2OS (WT and PRDX1 KO) lysates prepared with RIPA buffer, 10 µg protein loaded. 66820-1-Ig incubated at 1:5000 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



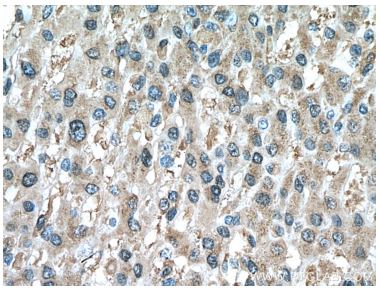
Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using PRDX1 antibody (66820-1-Ig, Clone: 2B2A2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 66820-1-Ig (PRDX1 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66820-1-Ig (PRDX1 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 cancer tissue slide using 66820-1-Ig (PRDX1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).