

Peroxiredoxin 3 (PRDX3) Rabbit pAb

Catalog No.: A3076 **1 Publications**

Basic Information

Observed MW

25kDa

Calculated MW

28kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

Background

This gene encodes a mitochondrial protein with antioxidant function. The protein is similar to the C22 subunit of Salmonella typhimurium alkylhydroperoxide reductase, and it can rescue bacterial resistance to alkylhydroperoxide in E. coli that lack the C22 subunit. The human and mouse genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Sequence comparisons with recently cloned mammalian homologs suggest that these genes consist of a family that is responsible for the regulation of cellular proliferation, differentiation and antioxidant functions. This family member can protect cells from oxidative stress, and it can promote cell survival in prostate cancer. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1, 3, 13 and 22.

Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

10935

Swiss Prot

P30048

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-256 of human Peroxiredoxin 3 (PRDX3) (NP_006784.1).

Synonyms

AOP1; MER5; AOP-1; PPPCD; SP-22; HBC189; SCAR32; PRO1748; prx-III; Peroxiredoxin 3 (PRDX3)

Contact

 | www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

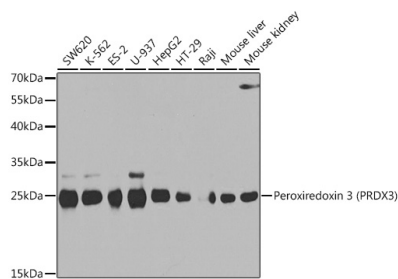
Affinity purification

Storage

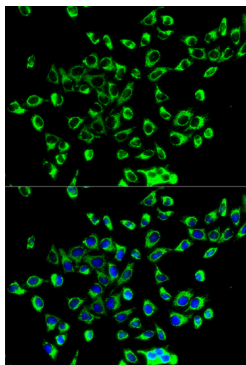
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

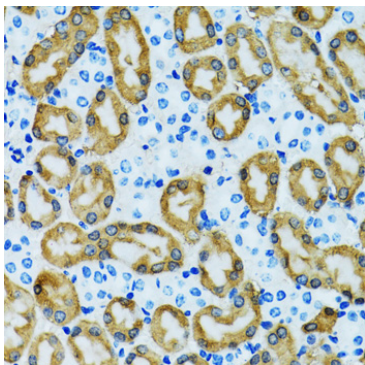
Validation Data



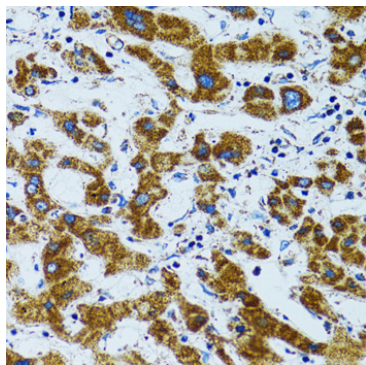
Western blot analysis of various lysates using Peroxiredoxin 3 (PRDX3) Rabbit pAb (A3076) at 1:500 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (A5014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5s.



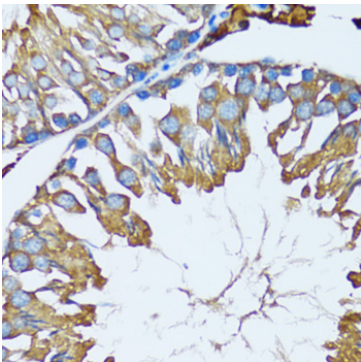
Immunofluorescence analysis of HeLa cells using Peroxiredoxin 3 (PRDX3) Rabbit pAb (A3076). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (A5007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of Peroxiredoxin 3 (PRDX3) in paraffin-embedded rat kidney using Peroxiredoxin 3 (PRDX3) Rabbit pAb (A3076) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Peroxiredoxin 3 (PRDX3) in paraffin-embedded human liver cancer using Peroxiredoxin 3 (PRDX3) Rabbit pAb (A3076) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Peroxiredoxin 3 (PRDX3) in paraffin-embedded mouse testis using Peroxiredoxin 3 (PRDX3) Rabbit pAb (A3076) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.