

Peroxiredoxin 3 (PRDX3) Rabbit mAb

Catalog No.: A2398 Recombinant

Basic Information

Observed MW

25kDa

Calculated MW

28kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Human, Mouse

CloneNo number

ARC0747

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 - 1:1000
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 157-256 of human Peroxiredoxin 3 (PRDX3) (PRDX3) (P30048).

Synonyms

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

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

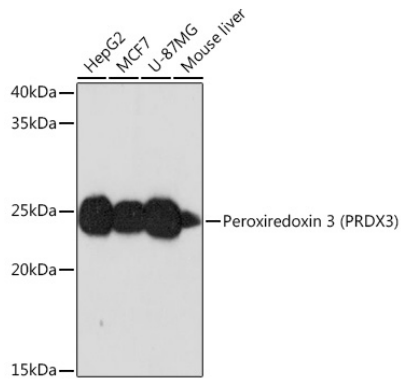
Affinity purification

Storage

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

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of various lysates using Peroxiredoxin 3 (PRDX3) Rabbit mAb (A2398) at 1:10000 dilution.

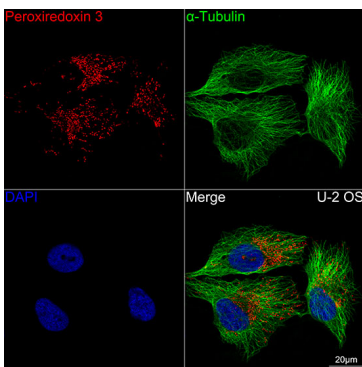
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

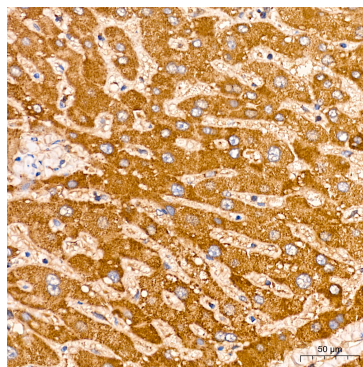
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

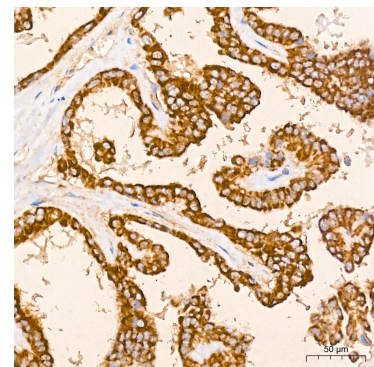
Exposure time: 90s.



Confocal imaging of U-2 OS cells using Peroxiredoxin 3 (PRDX3) Rabbit mAb (A2398, at dilution of 1:100) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Immunohistochemistry analysis of Peroxiredoxin 3 (PRDX3) in paraffin-embedded human liver tissue using Peroxiredoxin 3 (PRDX3) Rabbit mAb (A2398) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Peroxiredoxin 3 (PRDX3) in paraffin-embedded human thyroid cancer tissue using Peroxiredoxin 3 (PRDX3) Rabbit mAb (A2398) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.