

A2398

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Peroxiredoxin 3 (PRDX3) Rabbit mAb

Catalog No.: A2398

Recombinant

1 Publications

Basic Information

Observed MW

25kDa

Calculated MW

28kDa

Category

SMab Recombinant Monoclonal
Antibody

Applications

WB,IHC-P,IF/ICC,ELISA

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

ELISA Recommended starting
concentration is 1
µg/mL. Please optimize
the concentration
based on your specific
assay requirements.

Immunogen Information

Gene ID

10935

Swiss Prot

P30048

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

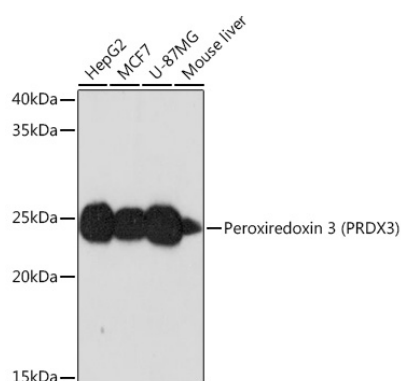
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

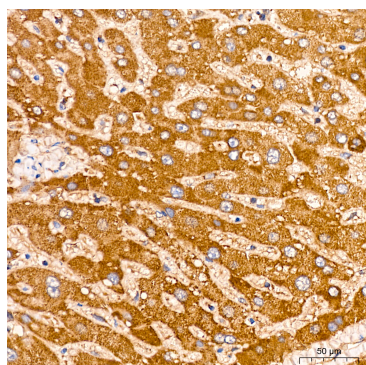


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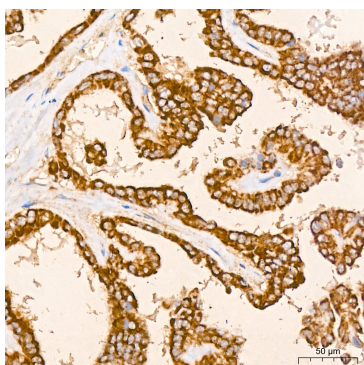
Validation Data



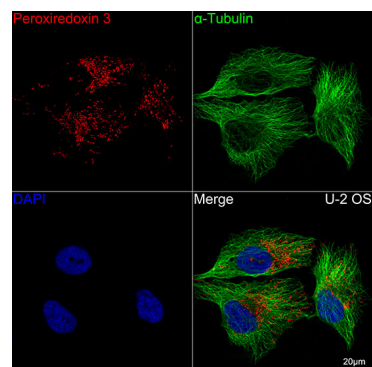
Western blot analysis of various lysates using Peroxiredoxin 3 (PRDX3) Rabbit mAb (A2398) at 1:1000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 90s.



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



Immunohistochemistry analysis of 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 performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



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.