

PRDX2 Recombinant Mouse mAb

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Catalog # AP94399

Product Information

Application	WB, IF, ICC
Host	Rabbit
Clonality	Recombinant
Physical State	Liquid
Isotype	IgG1, Kappa
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
SIMILARITY	Belongs to the AhpC/TSA family. Contains 1 thioredoxin domain.
SUBUNIT	Homodimer; disulfide-linked, upon oxidation. May be found as a toroid-shaped decamer composed of 5 dimers, depending on pH and calcium concentration. Interacts with TIPIN.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein plays an antioxidant protective role in cells, and it may contribute to the antiviral activity of CD8(+) T-cells. The crystal structure of this protein has been resolved to 2.7 angstroms. This protein prevents hemolytic anemia from oxidative stress by stabilizing hemoglobin, thus making this gene a therapeutic target for patients with hemolytic anemia. This protein may have a proliferative effect and play a role in cancer development or progression. Related pseudogenes have been identified on chromosomes 5, 6, 10 and 13. [provided by RefSeq, Mar 2013]

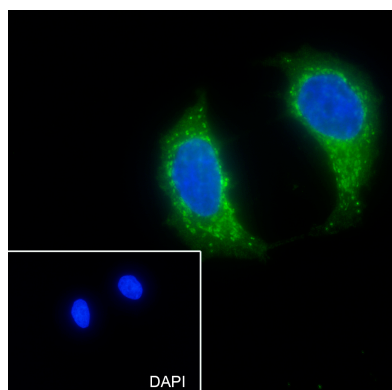
Additional Information

Dilution	WB=1:500-1:1000, ICC/IF=1:50
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

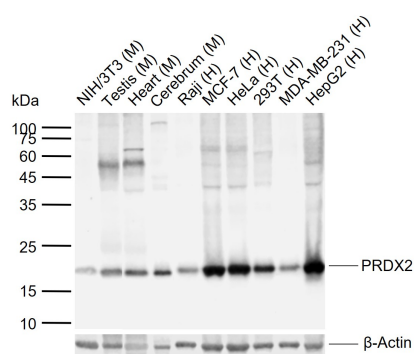
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Images



Cell line: MCF-7 Fixative: 4% Paraformaldehyde
Permeabilization: 0.1% TritonX-100 Primary ab dilution:
1:50 Primary incubation condition: 4°C overnight
Secondary ab: Goat Anti-Mouse IgG Nuclear counter
stain: DAPI (Blue) Comment: Color green is the positive
signal for AP94399



Sample: Lane 1: Mouse NIH/3T3 cell lysates Lane 2:
Mouse Testis tissue lysates Lane 3: Mouse Heart tissue
lysates Lane 4: Mouse Cerebrum tissue lysates Lane 5:
Human Raji cell lysates Lane 6: Human MCF-7 cell lysates
Lane 7: Human HeLa cell lysates Lane 8: Human 293T cell
lysates Lane 9: Human MDA-MB-231 cell lysates Lane 10:
Human HepG2 cell lysates Primary: Anti-PRDX2 (AP94399)
at 1/500 dilution Secondary: IRDye800CW Goat
Anti-Mouse IgG at 1/20000 dilution Predicted band size:
kDa Observed band size: 20 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.