

Anti-PRDX2 Antibody (4H768)

Product Details

Ig Type:	IgG1, Kappa
Reactivity:	Human, Mouse
Molecular Weight:	Actual: 20 kDa.
Clone:	4H768
Purification:	Protein G purified

Applications

1. 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 TMAB-11721

2. 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 (TMAB-11721) at 1/500 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: kDa
Observed band size: 20 kDa

Verified Activity:

Application: WB, ICC/IF

Recommended WB: 1:500-1000; ICC/IF: 1:100-500

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Gene ID: 7001

Research Background

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]

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