

Product Information

Size:

5µg

Applications:

Western Blot, ELISA

Reactivity:

Human

Source:

Mouse

Isotype:

IgG1

Purification Method:

PRDX1 antibody was purified from mouse ascitic fluids by protein-G affinity chromatography.

Protein Background:

PRDX1 is part of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. PRDX1 is an important protector of red blood cells against reactive oxygen species and in tumor prevention. PRDX1 is antioxidant protective in cells, and contributes to the antiviral activity of CD8(+) T-cells. PRDX1 has a proliferative effect and is involved in cancer development or progression. Peroxiredoxin-1 plays a role in redox regulation of the cell. Peroxiredoxin decreases peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. Peroxiredoxin is involved in eliminating peroxides generated during metabolism. Peroxiredoxin participates in the signaling cascades of growth factors and TNF-alpha by regulating the intracellular concentrations of h(2)o(2).

Synonyms:

Peroxiredoxin-1, EC 1.11.1.15, Thioredoxin peroxidase 2, Thioredoxin-dependent peroxide reductase 2, Proliferation-associated gene protein, Natural killer cell-enhancing factor A, NKEF-A, PRDX1, TDPX2, PRDX-1, PAG, PAGA, PRX1, PAGB, PRXI, MSP23, NKEFA.

Immunogen:

Anti-human PRDX1 mAb is derived from hybridization of mouse F myeloma cells with spleen cells from BALB/c mice immunized with recombinant human PRDX1 amino acids 1-199 purified from Ecoli.

Storage:

For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.