Product datasheet

Anti-PRDX1 Antibody (Clone#IIG-16)

Catalog Number: *BM4871*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-PRDX1 Antibody (Clone#IIG-16)
Gene Name	PRDX1
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human PRDX1
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	22 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-200 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 Flow Cytometry (FCM): 1:20

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

PRDX1(Peroxiredoxin 1), also called PRX1, PAGA or NKEFA, is a thiol reductase that plays critical roles in oxidative and thermal stress defense mechanisms through its abilities to metabolize H2O2 and act as a molecular chaperone, respectively. This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The PRDX1 gene is mapped on 1p34.1. Prdx1 was expressed in differentiating motor neuron cells in developing embryonic chicken and mouse spinal cords. mmunoprecipitation analysis showed that GDE2 interacted directly with PRDX1 in embryonic chicken spinal cord extracts and in transfected HEK293T cells. This protein may have a proliferative effect and play a role in cancer development or progression. In differentiating spinal cord, Prdx1 was required to activate Gde2 by reducing an intramolecular cystine bridge between the Gde2 N- and C-terminal domains. An intramolecular disulfide bond between the GDE2 N- and C-terminal domains inhibits GDE2 function, and that reduction of this cystine by PRDX1 activates GDE2 for the induction of motor neuron differentiation.

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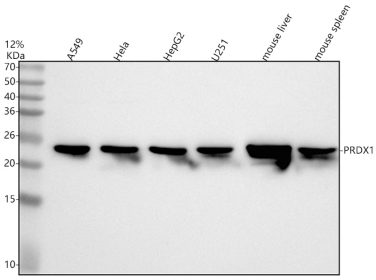
Reference

Anti-PRDX1 Antibody (Clone#IIG-16)被引用在1文献中。

Selected Validation Data



Western blot analysis of anti-PRDX1 antibody (BM4871). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human A549 whole cell lysates,
Lane 2: human Hela whole cell lysates,
Lane 3: human HepG2 whole cell lysates,
Lane 4: human U251 whole cell lysates,
Lane 5: mouse liver tissue lysates,
Lane 6: mouse spleen tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PRDX1 antigen affinity purified monoclonal antibody (BM4871) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PRDX1 at approximately 24 kDa. The expected band size for PRDX1 is at 22 kDa.

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