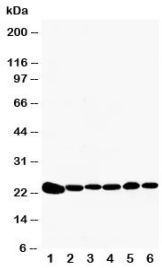
Peroxiredoxin 2 Antibody (PRDX2) (R30932)

Catalog No.	Formulation	Size
R30932	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P32119
Applications	0.5-1ug/ml
Limitations	This Peroxiredoxin 2 antibody is available for research use only.



Western blot testing of Peroxiredoxin 2 antibody and Lane 1: rat brain; 2: rat kidney; 3: HeLa; 4: Jurkat; 5: 293T; 6: A549 cell lysate. Expected size: 23KD

Description

Peroxiredoxin 2, also known as NKEFB, PRP, PRX2, PRXII or TPX1, is aproteinthat in humans is encoded by the PRDX2 gene. This gene encodes a member of a family of antioxidant enzymes which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. The Prdx2-/- mice were healthy in appearance and fertile. Choi et al.(2005)demonstrated that PRDX2 is a negative regulator of PDGF signaling. Prx II deficiency results in increased production of peroxide, enhanced activation of PDGF receptor and phospholipase C-gamma-1, and subsequently increased cell proliferation and migration in response

to PDGF. PRDX2 accounted for about half of the thioredoxin activity in parasite extracts, and expression was increased in the presence of chloroquine, regardless of P. falciparum strain susceptibility to the drug.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Peroxiredoxin 2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human PRDX2 (DTIKPNVDDSKEYFSKHN) was used as the immunogen for this Peroxiredoxin 2 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the Peroxiredoxin 2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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