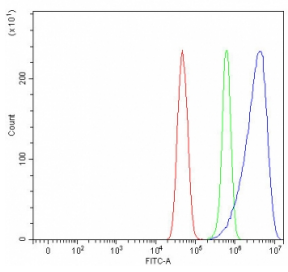
PRDX2 Antibody / Peroxiredoxin 2 (RQ8167)

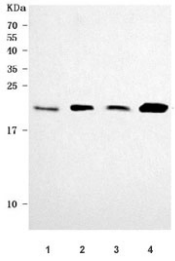
Catalog No.	Formulation	Size
RQ8167	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P32119
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This PRDX2 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human U-251 cells with PRDX2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PRDX2 antibody.



Western blot testing of human 1) HepG2, 2) HeLa, 3) 293T and 4) MCF7 cell lysate with PRDX2 antibody. Predicted molecular weight ~22 kDa.

Description

PRDX2 (Peroxiredoxin 2) also known as NKEFB, PRP, PRX2, PRXII or TPX1, is a protein that in humans is encoded by the PRDX2 gene. This gene encodes a member of the peroxiredoxin family of anti-oxidant 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. PRX2 accounted for about half of the thioredoxin activity in parasite extracts, and PRX2 expression was increased in the presence of chloroquine, regardless of P. falciparum strain susceptibility to the drug.

Application Notes

Optimal dilution of the PRDX2 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids N5-R127) was used as the immunogen for the PRDX2 antibody.

Storage

After reconstitution, the PRDX2 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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