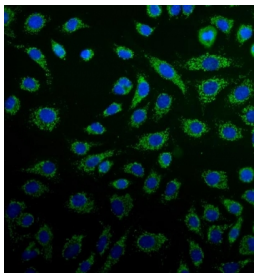
Peroxiredoxin 3 Antibody / PRDX3 (R30933)

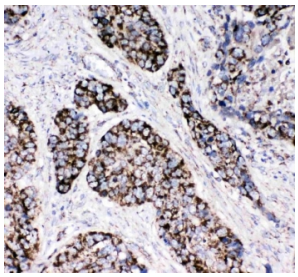
Catalog No.	Formulation	Size
R30933	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

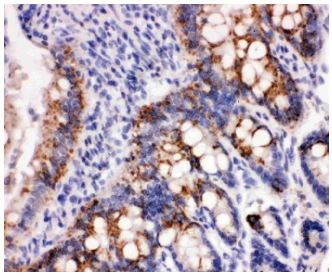
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P30048
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Peroxiredoxin 3 antibody is available for research use only.



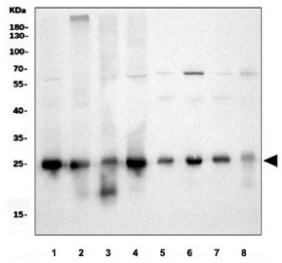
Immunofluorescent staining of FFPE human A549 cells with Peroxiredoxin 3 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



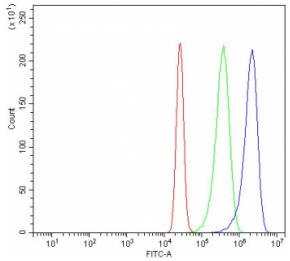
IHC staining of FFPE human lung cancer tissue with Peroxiredoxin 3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat intestine tissue with Peroxiredoxin 3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human A549, 3) human HEK293, 4) human MCF7, 5) rat brain, 6) rat liver, 7) mouse brain and 8) mouse liver tissue lysate with Peroxiredoxin 3 antibody. Predicted molecular weight ~28 kDa.



Flow cytometry testing of fixed and permeabilized human K562 cells with Peroxiredoxin 3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Peroxiredoxin 3 antibody.

Description

Peroxiredoxin 3 is a mitochondrial protein belonging to the AhpC/TSA family. Expression of PRDX3 is induced by MYC and is reduced in c-myc -/- cells. Chromatin immunoprecipitation analysis spanning the entire PRDX3 genomic sequence revealed that MYC binds preferentially to a 930-bp region surrounding exon 1. Results using mitochondria-specific fluorescent probes demonstrated that Peroxiredoxin 3 is essential for maintaining mitochondrial mass and membrane potential in transformed rat and human cells.

Application Notes

Titration of the Peroxiredoxin 3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 239-256 (TIKPSPAASKEYFQKVNQ-human) were used as the immunogen for this Peroxiredoxin 3 antibody.

Storage

The lyophilized Peroxiredoxin 3 antibody can be stored at 4oC to -20oC. After reconstitution, aliquot and store at -20oC.

Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.