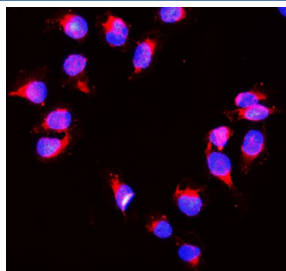


PRDX1 Antibody / Peroxiredoxin 1 (R31761)

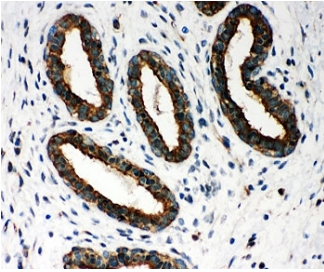
Catalog No.	Formulation	Size
R31761	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

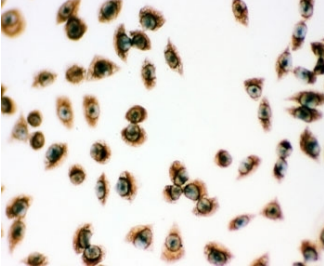
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q06830
Gene ID	5052
Localization	Cytoplasm
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunocytochemistry : 0.5-1ug/ml Immunofluorescence : 2ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This PRDX1 antibody is available for research use only.



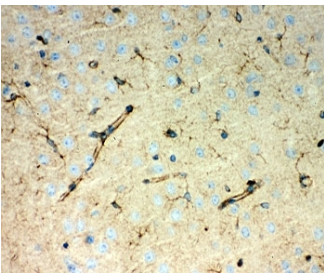
Immunofluorescent staining of FFPE human U-2 OS cells with PRDX1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



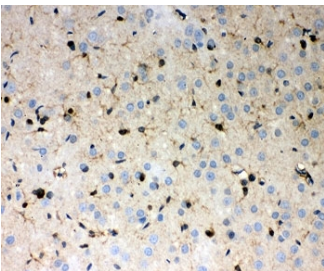
IHC-P testing of PRDX1 antibody and human breast cancer tissue. HIER: steamed with pH6 citrate buffer.



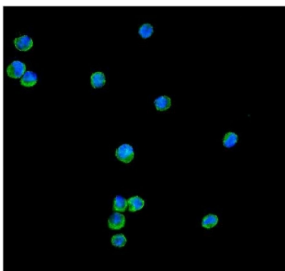
ICC testing of PRDX1 antibody and human SMMC-7721 cells.



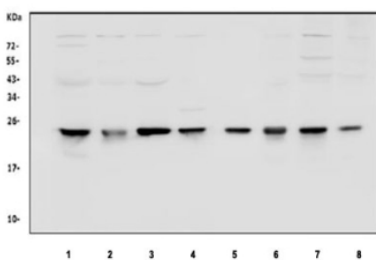
IHC-P testing of mouse brain tissue with PRDX1 antibody. HIER: steamed with pH6 citrate buffer.



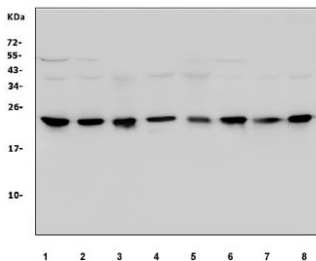
IHC-P testing of rat brain tissue with PRDX1 antibody. HIER: steamed with pH6 citrate buffer.



IF/ICC staining of FFPE human HeLa cells with PRDX1 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) rat kidney, 2) rat testis, 3) rat liver, 4) rat PC-12, 5) mouse kidney, 6) mouse testis, 7) mouse liver and 8) mouse RAW264.7 cell lysate with PRDX1 antibody. Expected molecular weight: ~22 kDa.



Western blot testing of human 1) Raji, 2) Jurkat, 3) MDA-MB-453, 4) HeLa, 5) HepG2, 6) HEK293, 7) human placenta and 8) A549 cell lysate with PRDX1 antibody. Expected molecular weight: ~22 kDa.

Description

Peroxiredoxin 1 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.

Application Notes

Titration of the PRDX1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the middle region of human Peroxiredoxin 1 (MNIPLVSDPKRTIAQDYGVLKADEGISFR) was used as the immunogen for this PRDX1 antibody.

Storage

The PRDX1 antibody can be stored at 4°C to -20°C. After reconstitution, aliquot and store at -20°C. Avoid repeated freezing and thawing.