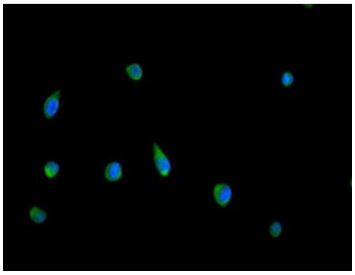
Peroxiredoxin 5 Antibody (R32051)

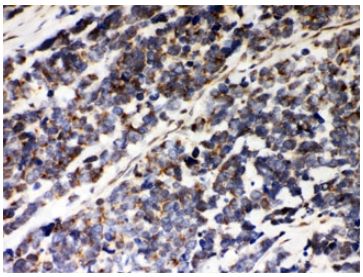
Catalog No.	Formulation	Size
R32051	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

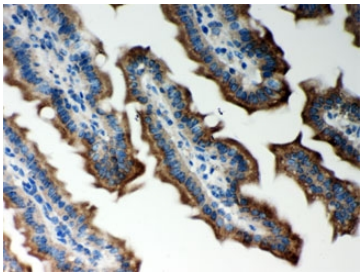
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P30044
Localization	Cytoplasmic (mitochondrial)
Applications	Western blot: 0.1-0.5ug/ml Immunocytochemistry: 0.1-0.5ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml Immunofluorescence (FFPE): 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Peroxiredoxin 5 antibody is available for research use only.



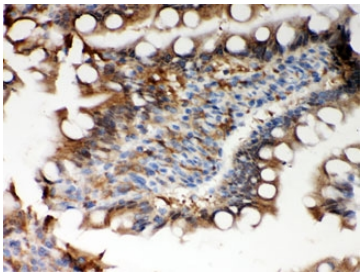
Immunofluorescent staining of FFPE human HeLa cells with Peroxiredoxin 5 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



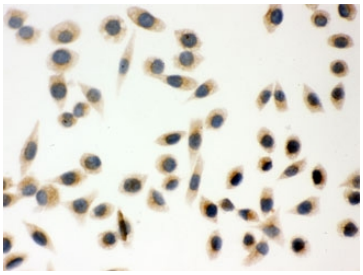
IHC testing of FFPE human lung cancer with Peroxiredoxin 5 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



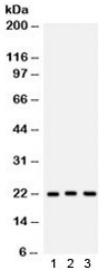
IHC testing of FFPE mouse intestine with Peroxiredoxin 5 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



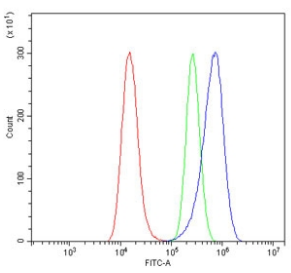
IHC testing of FFPE rat intestine with Peroxiredoxin 5 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



ICC testing of human SMCC cells with Peroxiredoxin 5 antibody.



Western blot testing of 1) human A549, 2) rat brain and 3) mouse brain lysate with Peroxiredoxin 5 antibody. Expected molecular weight ~22 kDa.



Flow cytometry testing of human A549 cells with Peroxiredoxin 5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Peroxiredoxin 5 antibody.

Description

PRDX5 (Peroxiredoxin 5) also known as PMP20, PRDX6, PRXV, SBBI10, is a member of the peroxiredoxin family and may play an antioxidant protective role in various tissues under nonpathologic conditions and during inflammatory processes. The PRDX5 gene is mapped to11q13.1. PRDX5 displays mitochondrial presequence features and has 3 cysteines implicated in antioxidant activity and a C-terminal SQL peroxisomal targeting sequence. Northern blot analysis revealed ubiquitous expression of a 1.0-kb PRDX5 transcript in tissues and cell lines. Functional analysis showed that PRDX5 has antioxidant activity equivalent to that of CAT. While PRDX5 was localized to fibroblasts in normal tendon, it was localized to fibroblasts and endothelial cells in degenerative tendon. PRDX5 mRNA and protein levels increased at 12 hours, and the increase in PRDX5 expression correlated with reduced peroxide levels. PRDX5 plays a protective role against oxidative stress in human cartilage.

Application Notes

Optimal dilution of the Peroxiredoxin 5 antibody should be determined by the researcher.

Immunogen

Amino acids 66-198 of human Peroxiredoxin 5 were used as the immunogen for the Peroxiredoxin 5 antibody.

Storage

After reconstitution, the Peroxiredoxin 5 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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