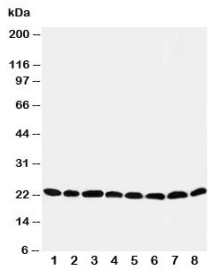
Peroxiredoxin 5 Antibody (PRDX5) (R30936)

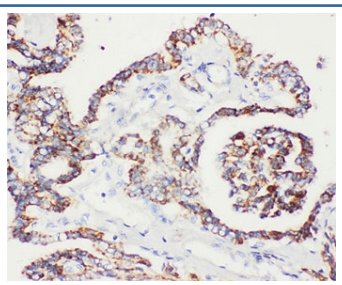
Catalog No.	Formulation	Size
R30936	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

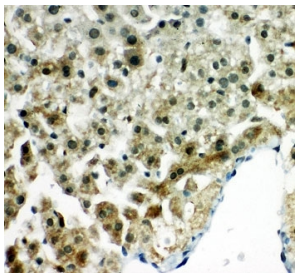
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P30044
Applications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



Western blot testing of Peroxiredoxin 5 antibody and Lane 1: rat brain; 2: (r) lung; 3: (r) liver; 4: (r) kidney; 5: human HeLa; 6: (h) 293T; 7: (h) MCF-7; 8: (h) A549 cell lysate. Expected size: ~22KD



IHC-P: Peroxiredoxin 5 antibody testing of human prostatic cancer tissue



IHC-P: Peroxiredoxin 5 antibody testing of rat liver tissue

Description

Peroxiredoxin 5, also known as PRX5 and PRDX5, is a member of the peroxiredoxin family and may play an antioxidant protective role in various tissues under nonpathologic conditions and during inflammatory processes. 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 Peroxiredoxin 5 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. mRNA and protein levels increased at 12 hours, and the increase in PRDX5 expression correlated with reduced peroxide levels. Peroxiredoxin 5 plays a protective role against oxidative stress in human cartilage.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Peroxiredoxin 5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human PRDX5 (DDSLVSIFGNRRLKRF) was used as the immunogen for this Peroxiredoxin 5 antibody (100% homologous in human, mouse and rat).

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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