

Anti-Peroxiredoxin 5 Picoband Antibody

Catalog # ABO12075

Product Information

Application	WB, IHC-P, ICC
Primary Accession	P30044
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Peroxiredoxin-5, mitochondrial (PRDX5) detection. Tested with WB, IHC-P, ICC in Human; Mouse; Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	25824
Other Names	Peroxiredoxin-5, mitochondrial, 1.11.1.15, Alu corepressor 1, Antioxidant enzyme B166, AOEB166, Liver tissue 2D-page spot 71B, PLP, Peroxiredoxin V, Prx-V, Peroxisomal antioxidant enzyme, TPx type VI, Thioredoxin peroxidase PMP20, Thioredoxin reductase, PRDX5, ACR1
Calculated MW	22086
Application Details	Immunocytochemistry , 0.5-1 μ g/ml, Human, - Immunohistochemistry (Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Subcellular Localization	Isoform Mitochondrial: Mitochondrion.
Tissue Specificity	Widely expressed. .
Source	Eukaryota
Protein Name	Peroxiredoxin-5, mitochondrial
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived human Peroxiredoxin 5 recombinant protein (Position: E66-D198). Human Peroxiredoxin 5 shares 91% amino acid (aa) sequence identity with both mouse and rat Peroxiredoxin 5.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the peroxiredoxin 2 family.

Protein Information

Name	PRDX5 (HGNC:9355)
Synonyms	ACR1
Function	Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events.
Cellular Location	[Isoform Mitochondrial]: Mitochondrion
Tissue Location	Widely expressed..

Background

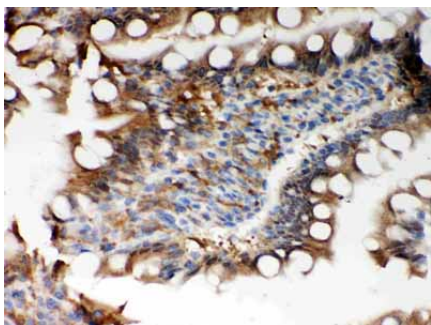
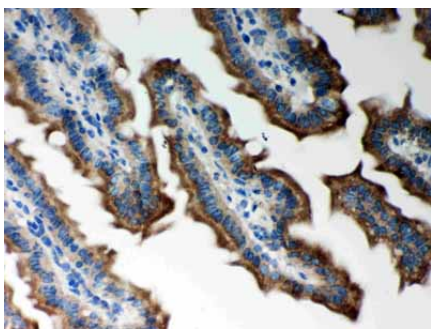
PRDX5 (peroxiredoxin 5) also known as AOEB166, ACR1, B166, MGC117264, MGC142283, MGC142285, PLP, PMP20, PRDX6, PRXV, SBB110, is a member of the peroxiredoxin family and may play an antioxidant protective role in various tissues under nonpathologic conditions and during inflammatory processes. The PRDX5 gene is mapped to 11q13.1. 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.

Images

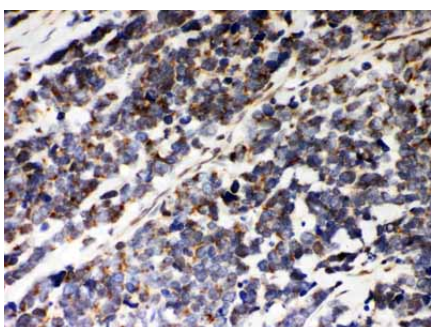


Anti- Peroxiredoxin 5 Picoband antibody, ABO12075,
Western blotting All lanes: Anti Peroxiredoxin 5
(ABO12075) at 0.5ug/ml Lane 1: A549 Whole Cell Lysate at
40ug Lane 2: Rat Brain Tissue Lysate at 50ug Lane 3:
Mouse Brain Tissue Lysate at 50ug Predicted bind size:
22KD Observed bind size: 22KD

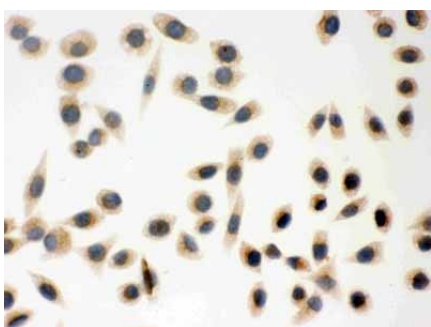
Anti- Peroxiredoxin 5 Picoband antibody, ABO12075,
IHC(P) IHC(P): Mouse Intestine Tissue



Anti- Peroxiredoxin 5 Picoband antibody, ABO12075,
IHC(P)IHC(P): Rat Intestine Tissue



Anti- Peroxiredoxin 5 Picoband antibody, ABO12075,
IHC(P)IHC(P): Human Lung Cancer Tissue



Anti- Peroxiredoxin 5 Picoband antibody, ABO12075,
ICCICC: SMMC Cell

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.