BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Peroxiredoxin 5/PRDX5 Antibody Picoband®

Catalog Number: PA1838

About PRDX5

PRDX5 (peroxiredoxin 5) also known as AOEB166, ACR1,B166, MGC117264, MGC142283, MGC142285, PLP, 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 on 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.

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Overview

Product Name	Anti-Peroxiredoxin 5/PRDX5 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Peroxiredoxin 5/PRDX5 Antibody catalog # PA1838. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P30044

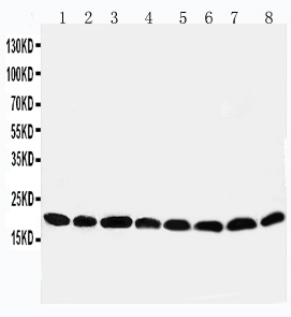
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Technical Details

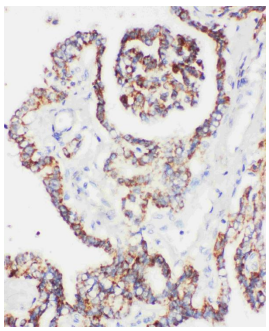
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Peroxiredoxin 5, identical to the related mouse and rat sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

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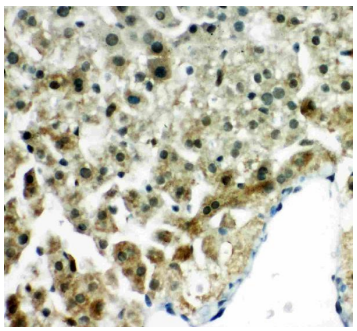
Anti-Peroxiredoxin 5/PRDX5 Antibody Picoband® (PA1838) Images



Anti-Peroxiredoxin 5 antibody, PA1838, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Rat Lung Tissue LysateLane 3: Rat Liver Tissue LysateLane 4: Rat Kidney Tissue LysateLane 5: HELA Cell Lysate Lane 6: 293T Cell LysateLane 7: MCF-7 Cell Lysate Lane 8: A549 Cell Lysate



Anti-Peroxiredoxin 5 antibody, PA1838, IHC(P)IHC(P): Human Prostatic Cancer Tissue



Anti-Peroxiredoxin 5 antibody, PA1838, IHC(P)IHC(P): Rat Liver Tissue

Anti-Peroxiredoxin 5/PRDX5 Antibody

For Research Use Only. Not for use in diagnostic procedures.