

Datasheet for ABIN3043358
anti-Peroxiredoxin 6 antibody (AA 15-224)



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2 Images

Overview

Quantity:	100 µg
Target:	Peroxiredoxin 6 (PRDX6)
Binding Specificity:	AA 15-224
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Peroxiredoxin 6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-Peroxiredoxin 6/PRDX6 Antibody Picoband®
Immunogen:	E.coli-derived human Peroxiredoxin 6 recombinant protein (Position: E15-P224). Human Peroxiredoxin 6 shares 90% and 91% amino acid (aa) sequence identity with mouse and rat Peroxiredoxin 6, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Peroxiredoxin 6/PRDX6 Antibody Picoband® (ABIN3043358). Tested in IHC, ICC, 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.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Peroxiredoxin 6 (PRDX6)

Alternative Name: PRDX6 ([PRDX6 Products](#))

Background: Synonyms: Peroxiredoxin-6,1.11.1.15,1-Cys peroxiredoxin,1-Cys PRX,24 kDa protein,Acidic calcium-independent phospholipase A2,aiPLA2,3.1.1.-,Antioxidant protein 2,Liver 2D page spot 40,Non-selenium glutathione peroxidase,NSGPx,1.11.1.9,Red blood cells page spot 12,PRDX6,AOP2, KIAA0106,

Tissue Specificity: Synthesized in numerous tissues (including tumors) and secreted into most extracellular body fluids, such as plasma, uterine fluid, saliva, gingival crevicular fluid, tears, seminal fluid, and milk.

Background: PRDX6 is also known as PRX, p29 or AOP2. The protein encoded by this gene is a member of the thiol-specific antioxidant protein family. This protein is a bifunctional enzyme with two distinct active sites. It is involved in redox regulation of the cell, it can reduce H₂O₂ and short chain organic, fatty acid, and phospholipid hydroperoxides. It may play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury.

Sequence Similarities: Belongs to the AhpC/TSA family. Rehydrin subfamily.

Molecular Weight: 25 kDa

Gene ID: 9588

UniProt: [P30041](#)

Application Details

Application Notes: Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Rat
Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat
Immunocytochemistry , 0.5-1 µg/mL, Human1. Ambruso DR, et al. Peroxiredoxin 6 translocates to the plasma membrane during neutrophil activation and is required for optimal NADPH oxidase activity. Biochim Biophys Acta, 2012 Feb. 2. Chhunchha B, et al. Aberrant sumoylation signaling evoked by reactive oxygen species impairs protective function of Prdx6 by destabilization and repression of its transcription. FEBS J, 2014 Aug. 3. Guo HW, et al. Expression of peroxiredoxin 6 in gastric cancer and its clinical significance. Zhonghua Yi Xue Za Zhi, 2012 Sep 11.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

Application Details

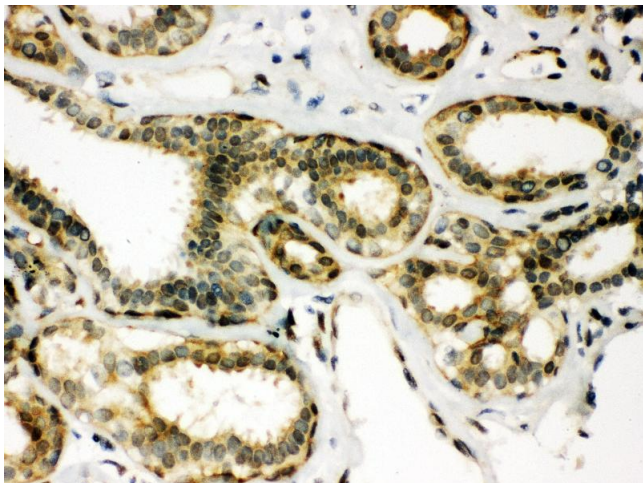
ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	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.

Images



Immunohistochemistry

Image 1. IHC(P): Human Mammary Cancer Tissue



Western Blotting

Image 2. Anti- Peroxiredoxin 6 Picoband antibody, Western blotting All lanes: Anti Peroxiredoxin 6 at 0.5ug/ml Lane 1: Mouse Liver Tissue Lysate at 50ug Lane 2: 293T Whole Cell Lysate at 40ug Predicted bind size: 25KD Observed bind size: 25KD