

Anti-Peroxiredoxin 2/PRDX2 Antibody Picoband®

Catalog Number: PA1834

About PRDX2

PRDX2 (peroxiredoxin 2) also known as NKEFB, PRP, PRX2, PRXII or TPX1, is a protein that in humans is encoded by the PRDX2 gene. This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8 (+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. The Prdx2 ^{-/-} mice were healthy in appearance and fertile. Choi et al. (2005) demonstrated that PRDX2 is a negative regulator of PDGF signaling. Prx II deficiency results in increased production of peroxide, enhanced activation of PDGF receptor and phospholipase C-gamma-1, and subsequently increased cell proliferation and migration in response to PDGF. PRX2 accounted for about half of the thioredoxin activity in parasite extracts, and PRX2 expression was increased in the presence of chloroquine, regardless of *P. falciparum* strain susceptibility to the drug.

Overview

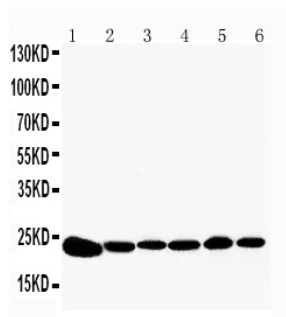
Product Name	Anti-Peroxiredoxin 2/PRDX2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Peroxiredoxin 2/PRDX2 Antibody catalog # PA1834. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that 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	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *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	P32119

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Peroxiredoxin 2, identical to the related mouse and rat sequences.
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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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	Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

Anti-Peroxiredoxin 2/PRDX2 Antibody Picoband® (PA1834) Images



Anti-Peroxiredoxin 2 antibody, PA1834, Western blotting
Lane 1: Rat Brain Tissue Lysate
Lane 2: Rat Kidney Tissue Lysate
Lane 3: HELA Cell Lysate
Lane 4: JURKAT Cell Lysate
Lane 5: 293T Cell Lysate
Lane 6: A549 Cell Lysate

2 Publications Citing This Product

1. PubMed ID: -, Chumyam A. and Saengnil, K. 2021. Transient H₂O₂ induction by ClO₂ fumigation alters Prx-Trx system and causes MAPK accumulation attenuating browning in harvested longan fruit. *CMUJ. Nat. Sci.* 20(1): e2021013.
2. PubMed ID: 24590739, You X, Zhang Y, Li L, Li Z, Li M, Li C, Zhu J, Peng H, Sun J. *Mol Biol Rep.* 2014 Jul;41(7):4351-60. Doi: 10.1007/S11033-014-3306-3. Epub 2014 Mar 4. Cloning And Molecular Characterization Of Phospholipase D (Pld) Delta Gene From Longan (*Dimocarpus...*

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