

Anti-Peroxiredoxin 4/PRDX4 Antibody

Catalog Number: PA1837

About PRDX4

PRDX4 (peroxiredoxin 4) also known as AOE37-2. The protein encoded by this gene is an antioxidant enzyme and belongs to the peroxiredoxin family. Functional analysis showed that PRDX4 protects glutamine synthetase from inactivation. Yeast 2-hybrid, immunoprecipitation, and immunoblot analyses indicated that PRDX4 and PRDX1 are capable of homodimerization and heterodimerization with each other but not with the mitochondrial PRDX3. Gel mobility shift and immunoblot analysis found that PRDX4 depletes NFkB binding activity together with a reduction in the amounts of p50, p65, and phosphorylated IKBA, as well as a reduction in the expression of HIV-1 viral proteins. Expression of PRDX4, alone or with PRDX1, increased the resistance of yeast cells to oxidant-induced toxicity. Jin et al. (1997) suggested PRDX4 modulates IKBA phosphorylation in the cytoplasm and thus affects a peroxiredoxin-dependent redox step.

Overview

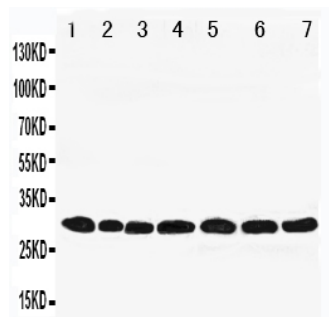
Product Name	Anti-Peroxiredoxin 4/PRDX4 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Peroxiredoxin 4/PRDX4 Antibody catalog # PA1837. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
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	Q13162

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Peroxiredoxin 4, identical to the related mouse and rat sequences.
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</p>

Anti-Peroxiredoxin 4/PRDX4 Antibody (PA1837) Images



Anti-Peroxiredoxin 4 antibody, PA1837, Western blotting

Lane 1: Rat Brain Tissue Lysate

Lane 2: Rat Lung Tissue Lysate

Lane 3: Rat Liver Tissue Lysate

Lane 4: Rat Kidney Tissue Lysate

Lane 5: HELA Cell Lysate

Lane 6: 293T Cell Lysate

Lane 7: MCF-7 Cell Lysate

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