

Anti-Peroxiredoxin 3/PRDX3 Antibody Picoband® Cy3 Conjugated

Catalog Number: PB9349-Cy3

About PRDX3

PRDX3 (peroxiredoxin 3) also known as AOP-1, MER5, SP-22 or PRX3, is localized exclusively in mitochondria. The deduced 256-amino acid human AOP1 protein shares 86% amino acid sequence similarity with mouse Aop1, and significant similarity with both the human proliferation-associated gene A product and the mouse stress-induced peritoneal macrophage protein Msp23. The PRDX3 gene is mapped on 10q26.11. Expression of PRDX3 is induced by MYC and is reduced in c-myc $-/-$ cells. Chromatin immunoprecipitation analysis spanning the entire PRDX3 genomic sequence revealed that MYC binds preferentially to a 930-bp region surrounding exon 1. Results using mitochondria-specific fluorescent probes demonstrated that PRDX3 is essential for maintaining mitochondrial mass and membrane potential in transformed rat and human cells. These data provided evidence that PRDX3 is a MYC target gene that is required to maintain normal mitochondrial function.

Overview

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| Product Name | Anti-Peroxiredoxin 3/PRDX3 Antibody Picoband® Cy3 Conjugated |
| Reactive Species | Human, Mouse, Rat |
| Application | Flow Cytometry |
| Clonality | Polyclonal |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Rabbit |
| Uniprot ID | P30048 |

Technical Details

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| Immunogen | E.coli-derived human Peroxiredoxin 3 recombinant protein (Position: T110-Q256). Human Peroxiredoxin 3 shares 93% amino acid (aa) sequence identity with both mouse and rat Peroxiredoxin 3. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Immunogen affinity purified. |
| Conjugate | Cy3 Excitation Wavelength: 554 nm |

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| | Emission Wavelength: 568 nm |
| Suggested Dilutions | Flow Cytometry, Optimal dilutions should be determined by end users. |

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Anti-Peroxiredoxin 3/PRDX3 Antibody - Cy3

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