Datasheet for ABIN935021

# Peroxiredoxin 2 Protein (PRDX2) (AA 1-198)

1 Image

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | Peroxiredoxin 2 (PRDX2) |
| Protein Characteristics: | AA 1-198 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Application: | SDS-PAGE (SDS) |

## Product Details

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| Sequence: | MASGNARIGK PAPDFKATAV VDGAFKEVKL SDYKGKYVVL FFYPLDFTFV CPTEIIAFSN RAEDFRKLGC EVLGVSVDSQ FTHLAWINTP RKEGGLGPLN IPLLADVTRR LSEDYGVLKT DEGIAYRGLF IIDGKGVLRQ ITVNDLPVGR SVDEALRLVQ AFQYTDEHGE VCPAGWKPGS DTIKPNVDDS KEYFSKHN |
| Characteristics: | Purified recombinant Human Peroxiredoxin 2 protein<br>Expression System: E.coli<br>Bioactivity: Specific activity: approximately 200-230 pM/min/µg. Enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX2 and peroxide for 20 min at room temperature. Specific activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25 °C for 1 minute.<br>Molecular weight on SDS-PAGE will appear higher. |
| Purity: | > 90 % pure |

## Target Details

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| Target: | Peroxiredoxin 2 (PRDX2) |
| Alternative Name: | Peroxiredoxin 2 (PRDX2 Products) |
| Background: | Peroxiredoxin 2, also known as PRDX2, is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. Peroxiredoxin 2 may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. If Peroxiredoxin 2 protection is inadequate against peroxidases, the resulting protein and DNA damage may result in neurological disease such as Alzheimer's or DNA damage leading to cancer. Recombinant human Peroxiredoxin 2 protein was expressed in E. coli and purified by using conventional chromatography.<br>Alternative Names: Peroxiredoxin 2, Thiol specific antioxidant protein protein, Thiol Specific Antioxidant 1 protein, Peroxiredoxin -2 protein, NKEFB protein, Thioredoxin Dependent Peroxide Reductase 1 protein, Peroxiredoxin 2, Peroxiredoxin 2 protein, Thioredoxin Peroxidase 1 protein, Torin., Peroxiredoxin -2, Natural Killer Enhancing Factor B protein, MGC4104 protein, PRXII protein, PRDX2 protein, Natural killer cell enhancing factor B protein, TDPX1 protein, Peroxiredoxin 2 protein, TDPX1 protein, TSA protein, PRP protein, PRDX 2 protein, PRX2 protein, NKEF B protein |
| Molecular Weight: | 21.8 kDa (198 AA) |

## Application Details

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| Application Notes: | Peroxiredoxin 2 protein has been used in SDS PAGE and may be suitable for use in other assays to be determined by the end user. |
| Restrictions: | For Research Use only |

## Handling

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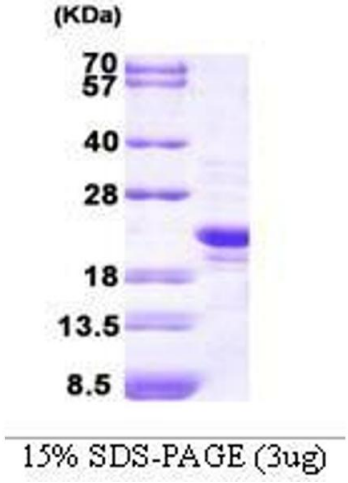
| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | Supplied as a liquid in 20 mM Tris-HCl buffer, pH 8.0, containing 10 % glycerol. |
| Handling Advice: | Avoid repeated freeze/thaw cycles. |
| Storage: | RT/-20 °C |
| Storage Comment: | Store at 4 °C for short term storage (1/2 weeks). Aliquot and store at -20 °C or - 70 °C for long term storage. |




## SDS-PAGE

**Image 1.** Figure annotation denotes ug of protein loaded and % gel used.