

Datasheet for ABIN912097

## anti-Peroxiredoxin 1 antibody (AA 1-100) (AbBy Fluor® 488)



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### 1 Publication

#### Overview

|                      |                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                                                |
| Target:              | Peroxiredoxin 1 (PRDX1)                                                                                                                               |
| Binding Specificity: | AA 1-100                                                                                                                                              |
| Reactivity:          | Human, Mouse, Rat                                                                                                                                     |
| Host:                | Rabbit                                                                                                                                                |
| Clonality:           | Polyclonal                                                                                                                                            |
| Conjugate:           | This Peroxiredoxin 1 antibody is conjugated to AbBy Fluor® 488                                                                                        |
| Application:         | Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

#### Product Details

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human PRDX1 |
| Isotype:              | IgG                                                       |
| Cross-Reactivity:     | Human, Mouse, Rat                                         |
| Predicted Reactivity: | Dog,Cow,Horse,Rabbit                                      |
| Purification:         | Purified by Protein A.                                    |

#### Target Details

|                   |                                          |
|-------------------|------------------------------------------|
| Target:           | Peroxiredoxin 1 (PRDX1)                  |
| Alternative Name: | Prdx1 ( <a href="#">PRDX1 Products</a> ) |

## Target Details

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | <p>Synonyms: PAG, PAGA, PAGB, PRX1, PRXI, MSP23, NKEFA, TDPX2, NKEF-A, Peroxiredoxin-1, Natural killer cell-enhancing factor A, Proliferation-associated gene protein, Thioredoxin peroxidase 2, Thioredoxin-dependent peroxide reductase 2, PRDX1</p> <p>Background: Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2). Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation (By similarity).</p> |
| Gene ID:    | 5052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| UniProt:    | <a href="#">Q06830</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Pathways:   | <a href="#">p53 Signaling</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">CXCR4-mediated Signaling Events</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Application Details

|                    |                                                                              |
|--------------------|------------------------------------------------------------------------------|
| Application Notes: | FCM 1:20-100<br>IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions:      | For Research Use only                                                        |

## Handling

|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                             |
| Concentration:     | 1 µg/µL                                                                                                            |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.        |
| Preservative:      | ProClin                                                                                                            |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                             |
| Storage Comment:   | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.                                  |
| Expiry Date:       | 12 months                                                                                                          |

## Publications

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Product cited in: Szabó-Taylor, Tóth, Balogh, Sódar, Kádár, Pálóczi, Fekete, Németh, Osteikoetxea, Vukman, Holub, Pállinger, Nagy, Winyard, Buzás: "Monocyte activation drives preservation of membrane thiols by promoting release of oxidised membrane moieties via extracellular vesicles." in: **Free radical biology & medicine**, Vol. 108, pp. 56-65, (2017) ([PubMed](#)).