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Built Around Immunology

# Anti-Peroxiredoxin 1 Rabbit mAb [64G20]

**Catalog No.: A52283**

## Basic Information

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|---|---|
| Catalog No. (Cat.No.) | A52283 |
| Host species | Rabbit |
| Reactivity | Human,Mouse,Rat |
| Applications | WB,IHC,IP,IF,ELISA |
| Synonyms | Peroxiredoxin 1,PRDX1,Peroxiredoxin-1,PRX-1,PRX1,AIIF2A6 |

## Product Information

| | |
|---|---|
| Target | Peroxiredoxin 1 |
| Molecular Weight(Calculated) | 22 kDa |
| Molecular Weight(Observed) | 26 kDa |
| Isotype | IgG,Kappa |
| Conjugation | NA |
| Concentration | 0.2 mg/ml |
| Clonality | Monoclonal |
| Clone No. | 64G20 |
| RRID | NA |
| Storage buffer | 50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4) |
| Storage | Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles. |
| Shipped at conditions | Frozen |
| Form | Liquid |

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## Product Usage Information

| Application | Dilution |
|---|---|
| WB | 1:1000-1:5000 |
| IHC | 1:200-1:1000 |
| IP | 1:50-1:200 |
| IF | 1:200-1:1000 |
| ELISA | 1:5000-1:20000 |

## Target Information

| | |
|---|---|
| Protein Name | Peroxiredoxin-1 |
| Gene Name | *PRDX1* |
| Domain | NA |
| Background | PRDX1 (Peroxiredoxin-1) is 2-Cys peroxiredoxin family protein eliminating intracellular hydrogen peroxide and peroxynitrite to counteract oxidative stress. Using thiol-dependent catalysis, PRDX1 reduces H2O2 and lipid peroxides to mitigate oxidative insults. It undergoes conformational transitions among monomer, dimer and high-order oligomer; hyperoxidation under heavy oxidative stress triggers catalytic inactivation. Predominantly cytosolic with minor nuclear pool, PRDX1 also shapes redox-dependent signaling and modulates NF-κB activity. Aberrant PRDX1 expression associates with inflammation and malignancy; PRDX1 up-regulation confers resistance to oxidative and chemotherapeutic stress in cancers. |