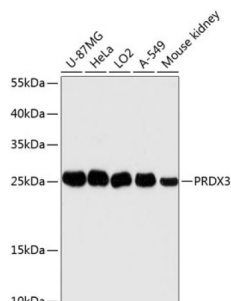
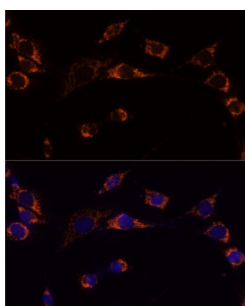


# Thioredoxin-Dependent Peroxide Reductase, Mitochondrial (PRDX3) Antibody

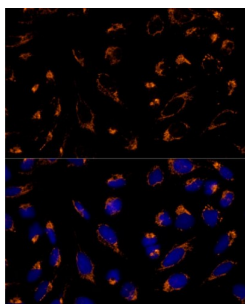
Catalogue No.: abx002217



Western blot analysis of extracts of various cell lines using PRDX3 Antibody (1/3000 dilution).



Immunofluorescence analysis of NIH-3T3 cells using PRDX3 Antibody (1/100 dilution, 40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using PRDX3 Antibody (1/100 dilution, 40x lens). Blue: DAPI for nuclear staining.

PRDX3 Antibody is a Rabbit Polyclonal antibody against PRDX3. This gene encodes a protein with antioxidant function and is localized in the mitochondrion. This gene shows significant nucleotide sequence similarity to the gene coding for the C22 subunit of *Salmonella typhimurium* alkylhydroperoxide reductase. Expression of this gene product in *E. coli* deficient in the C22-subunit gene rescued resistance of the bacteria to alkylhydroperoxide. The human and mouse genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Sequence comparisons with recently cloned mammalian homologues suggest that these genes consist of a family that is responsible for regulation of cellular proliferation, differentiation, and antioxidant functions. Two transcript variants encoding two different isoforms have been found for this gene.

**Target:** Thioredoxin-Dependent Peroxide Reductase, Mitochondrial (PRDX3)

**Clonality:** Polyclonal

**Reactivity:** Human, Mouse, Rat

**Tested Applications:** WB, IF/ICC

# Datasheet

Version: 4.0.0  
Revision date: 14 Sep 2025



**Host:** Rabbit

**Recommended dilutions:** WB: 1/500 - 1/2000, IF/ICC: 1/50 - 1/100. Optimal dilutions/concentrations should be determined by the end user.

**Conjugation:** Unconjugated

**Immunogen:** Recombinant fusion protein corresponding to human PRDX3

**Isotype:** IgG

**Form:** Liquid

**Purification:** Purified by affinity chromatography.

**Storage:** Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

**UniProt Primary AC:** P30048 ([UniProt](#), [ExPASy](#))

**Gene Symbol:** PRDX3

**GeneID:** [10935](#)

**NCBI Accession:** NP\_006784.1

**KEGG:** hsa:10935

**String:** [9606.ENSP00000298510](#)

**Molecular Weight:** Calculated MW: 25 kDa/27 kDa  
Observed MW: 28 kDa

**Buffer:** PBS, pH 7.3, containing 0.02% sodium azide, 50% glycerol.

**Concentration:** 1 mg/ml

**Note:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.