

Anti-PRDX3 antibody

Cat. No.	ml221157
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol

Product overview

Description	Anti-PRDX3 rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human PRDX3
Reactivity	Human, Mouse, Rat
Content	0.2 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	PRDX3
Full name	peroxiredoxin 3

Synonyms AOP1, MER5, AOP-1, SP-22, HBC189, PRO1748, prx-III

Swissprot P30048

Target Background

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.

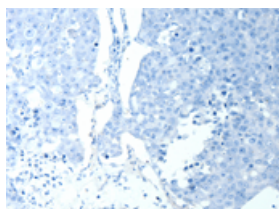
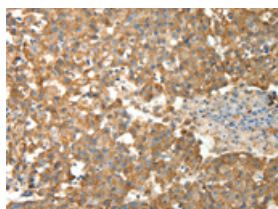
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human breast cancer

Recommended dilution: 50-200

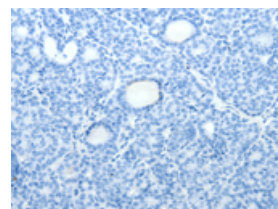
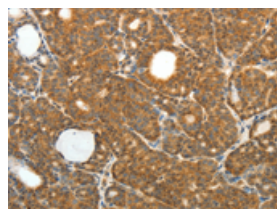


The image on the left is immunohistochemistry of paraffin-embedded Human breast cancer tissue using ml221157(PRDX3 Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: ×200)

Predicted cell location: Cytoplasm

Positive control: Human thyroid cancer

Recommended dilution: 50-200



The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ml221157(PRDX3 Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: ×200)

Western blotting

Predicted band size: 28 kDa

Positive control: Hela, 293T and MCF7 cells, human fetal brain tissue and Jurkat cells

Recommended dilution: 500-2000

Gel: 10%SDS-PAGE

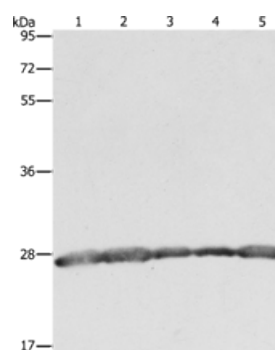
Lysate: 40 µg

Lane 1-5: Hela cells, 293T cells, MCF7 cells, human fetal brain tissue, Jurkat cells

Primary antibody: ml221157(PRDX3 Antibody) at dilution 1/800

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 2 seconds



ELISA

Recommended dilution: 2000-5000

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