

## ARG57066 anti-Peroxiredoxin 3 antibody [1F8]

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [1F8] recognizes Peroxiredoxin 3
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	1F8
Isotype	IgG3, kappa
Target Name	Peroxiredoxin 3
Species	Human
Immunogen	Recombinant fragment around aa. 63-256 of Human Peroxiredoxin3.
Conjugation	Un-conjugated
Alternate Names	EC 1.11.1.15; Antioxidant protein 1; Prx-III; SP-22; AOP1; AOP-1; MER5; HBC189; PRO1748; Peroxiredoxin-3; Thioredoxin-dependent peroxide reductase, mitochondrial; prx-III; Peroxiredoxin III; Protein MER5 homolog

### Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

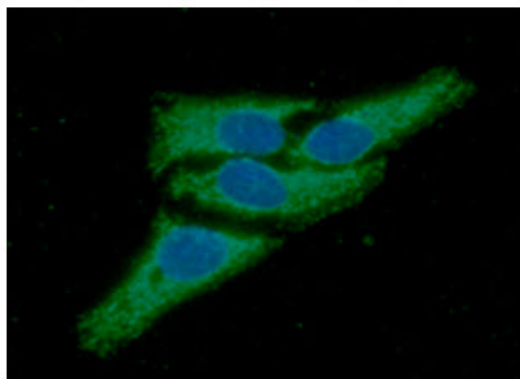
### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

## Bioinformation

Database links	<a href="#">GeneID: 10935 Human</a> <a href="#">Swiss-port # P30048 Human</a>
Gene Symbol	PRDX3
Gene Full Name	peroxiredoxin 3
Background	<p>This gene encodes a mitochondrial protein with antioxidant function. The protein is similar to the C22 subunit of <i>Salmonella typhimurium</i> alkylhydroperoxide reductase, and it can rescue bacterial resistance to alkylhydroperoxide in <i>E. coli</i> that lack the C22 subunit. 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 homologs suggest that these genes consist of a family that is responsible for the regulation of cellular proliferation, differentiation and antioxidant functions. This family member can protect cells from oxidative stress, and it can promote cell survival in prostate cancer. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1, 3, 13 and 22. [provided by RefSeq, Oct 2014]</p>
Function	<p>Involved in redox regulation of the cell. Protects radical-sensitive enzymes from oxidative damage by a radical-generating system. Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol. [UniProt]</p>
Calculated Mw	28 kDa
PTM	Phosphorylated by LRRK2; phosphorylation reduces peroxidase activity.

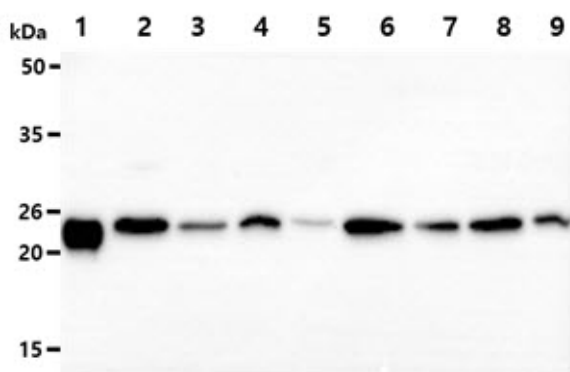
## Images



ARG57066 anti-Peroxiredoxin 3 antibody [1F8] ICC/IF image

Immunofluorescence: HeLa cell line stained with ARG57066 anti-Peroxiredoxin 3 antibody [1F8] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



ARG57066 anti-Peroxiredoxin 3 antibody [1F8] WB image

Western blot: 1) 50 ng of Recombinant protein, 40 µg of 2) HeLa cell lysate, 3) HepG2 cell lysate, 4) TF1 cell lysate, 5) U87MG cell lysate, 6) Raji cell lysate, 7) 293T cell lysate, 8) Jurkat cell lysate, 9) MCF7 cell lysate stained with ARG57066 anti-Peroxiredoxin 3 antibody [1F8] at 1:1000.