

## ARG59034 anti-Peroxiredoxin 4 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Peroxiredoxin 4
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Peroxiredoxin 4
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 178-208 of Human Peroxiredoxin 4 (SDLTHQISKDYGVYLEDSGHTLRGLFIIDDK).
Conjugation	Un-conjugated
Alternate Names	EC 1.11.1.15; AOE372; Antioxidant enzyme AOE372; HEL-S-97n; Thioredoxin-dependent peroxide reductase A0372; Peroxiredoxin IV; Peroxiredoxin-4; PRX-4; Prx-IV; Thioredoxin peroxidase A0372; AOE37-2

### Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml

**Application Note**

IHC-P: Antigen Retrieval: By heat mediation.  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml

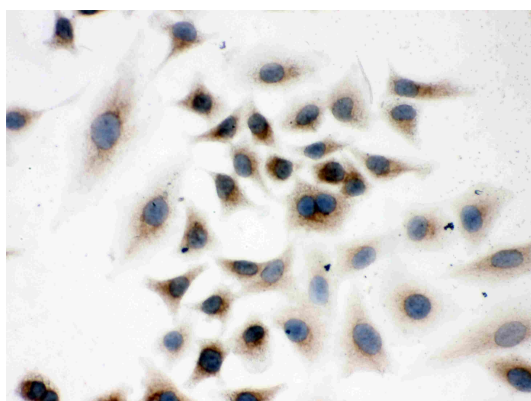
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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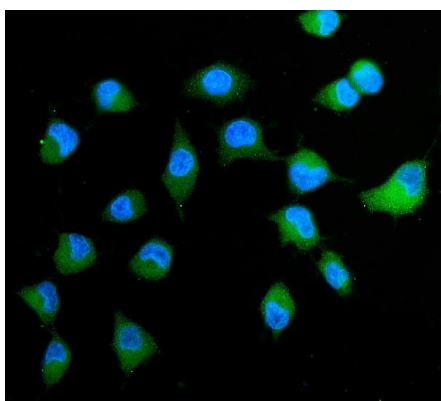
Gene Symbol	PRDX4
Gene Full Name	peroxiredoxin 4
Background	The protein encoded by this gene is an antioxidant enzyme and belongs to the peroxiredoxin family. The protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein has been found to play a regulatory role in the activation of the transcription factor NF-kappaB. [provided by RefSeq, Jul 2008]
Function	Probably involved in redox regulation of the cell. Regulates the activation of NF-kappa-B in the cytosol by a modulation of I-kappa-B-alpha phosphorylation. [UniProt]
Calculated Mw	31 kDa
Cellular Localization	Cytoplasm. Secreted. [UniProt]

## Images



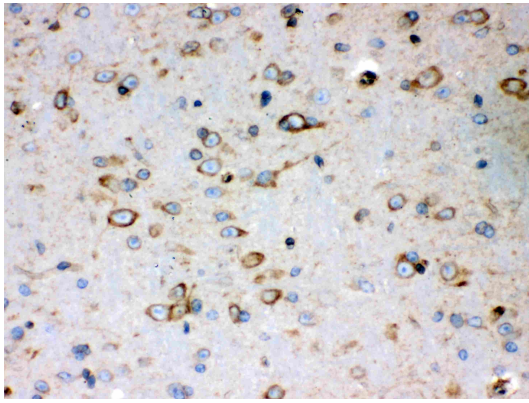
ARG59034 anti-Peroxiredoxin 4 antibody ICC image

Immunocytochemistry: A549 cells stained with ARG59034 anti-Peroxiredoxin 4 antibody.



ARG59034 anti-Peroxiredoxin 4 antibody ICC/IF image

Immunofluorescence: A549 cells were blocked with 10% goat serum and then stained with ARG59034 anti-Peroxiredoxin 4 antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



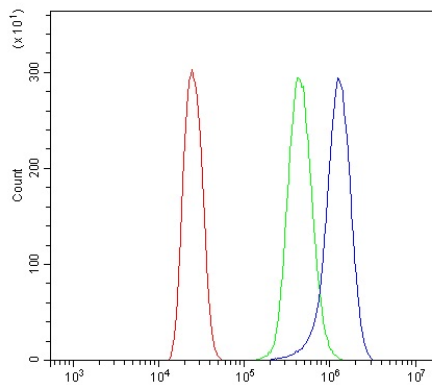
#### ARG59034 anti-Peroxiredoxin 4 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain tissue stained with ARG59034 anti-Peroxiredoxin 4 antibody.



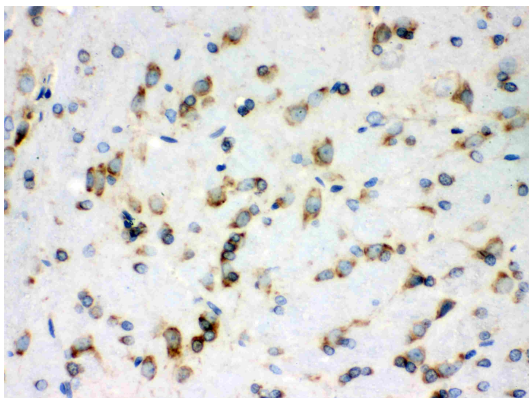
#### ARG59034 anti-Peroxiredoxin 4 antibody WB image

Western blot: 50  $\mu$ g of Rat brain, 50  $\mu$ g of Mouse brain and 40  $\mu$ g of HeLa lysates stained with ARG59034 anti-Peroxiredoxin 4 antibody at 0.5  $\mu$ g/ml dilution.



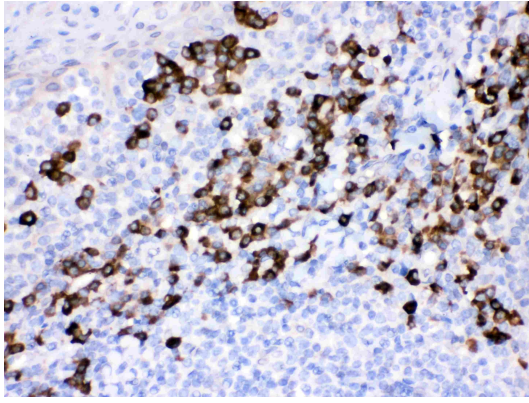
#### ARG59034 anti-Peroxiredoxin 4 antibody FACS image

Flow Cytometry: MCF-7 cells were blocked with 10% normal goat serum and then stained with ARG59034 anti-Peroxiredoxin 4 antibody (blue) at 1  $\mu$ g/ $10^6$  cells for 30 min at 20°C, followed by incubation with DyLight<sup>®</sup>488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1  $\mu$ g/ $10^6$  cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



#### ARG59034 anti-Peroxiredoxin 4 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain tissue stained with ARG59034 anti-Peroxiredoxin 4 antibody.



ARG59034 anti-Peroxiredoxin 4 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human tonsil tissue stained with ARG59034 anti-Peroxiredoxin 4 antibody.