

# ARG59454 anti-Peroxiredoxin 1 antibody

Package: 50 μg Store at: -20°C

# Summary

Product Description	Rabbit Polyclonal antibody recognizes Peroxiredoxin 1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Hm
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Peroxiredoxin 1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 100-128 of Human Peroxiredoxin 1. (MNIPLVSDPKRTIAQDYGVLKADEGISFR)
Conjugation	Un-conjugated
Alternate Names	EC 1.11.1.15; TDPX2; PAG; PRX1; MSP23; Natural killer cell-enhancing factor A; Peroxiredoxin-1; PRXI; NKEFA; PAGA; PAGB; Proliferation-associated gene protein; Thioredoxin peroxidase 2; NKEF-A; Thioredoxin-dependent peroxide reductase 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	0	val: By heat mediation. The recommended starting dilutions and the optimal dilutions or concentrations I by the scientist.

## **Properties**

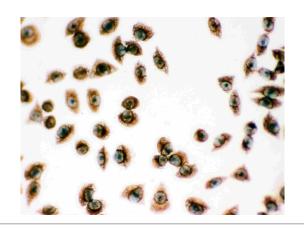
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA

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

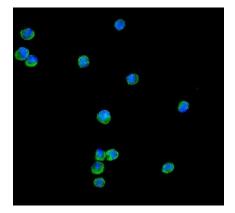
Gene Symbol	PRDX1
Gene Full Name	peroxiredoxin 1
Background	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Four transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jan 2011]
Function	Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2). Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation (By similarity). [UniProt]
Calculated Mw	22 kDa
РТМ	Phosphorylated on Thr-90 during the M-phase, which leads to a more than 80% decrease in enzymatic activity. [UniProt]
Cellular Localization	Cytoplasm. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. [UniProt]

# Images



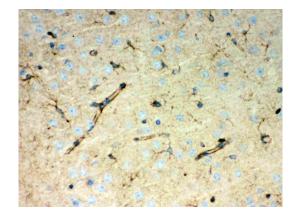
### ARG59454 anti-Peroxiredoxin 1 antibody ICC image

Immunocytochemistry: SMMC-7721 cells stained with ARG59454 anti-Peroxiredoxin 1 antibody.



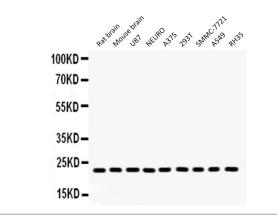
### ARG59454 anti-Peroxiredoxin 1 antibody ICC/IF image

Immunofluorescence: HeLa cells were blocked with 10% goat serum and then stained with ARG59454 anti-Peroxiredoxin 1 antibody (green) at 2  $\mu$ g/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



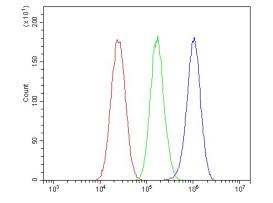
#### ARG59454 anti-Peroxiredoxin 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain stained with ARG59454 anti-Peroxiredoxin 1 antibody.



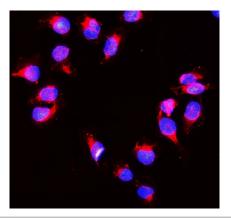
#### ARG59454 anti-Peroxiredoxin 1 antibody WB image

Western blot: 50  $\mu$ g of Rat brain, 50  $\mu$ g of Mouse brain, 40  $\mu$ g of U87, 40  $\mu$ g of NEURO, 40  $\mu$ g of A375, 40  $\mu$ g of 293T, 40  $\mu$ g of SMMC-7721, 40  $\mu$ g of A549 and 40  $\mu$ g of RH35 whole cell lysates stained with ARG59454 anti-Peroxiredoxin 1 antibody at 0.5  $\mu$ g/ml dilution.



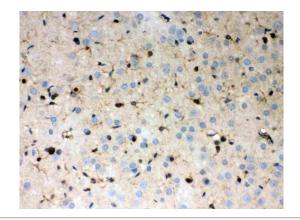
#### ARG59454 anti-Peroxiredoxin 1 antibody FACS image

Flow Cytometry: HepG2 cells were blocked with 10% normal goat serum and then stained with ARG59454 anti-Peroxiredoxin 1 antibody (blue) at 1  $\mu$ g/10^6 cells for 30 min at 20°C, followed by incubation with DyLight®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.



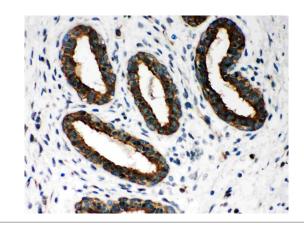
#### ARG59454 anti-Peroxiredoxin 1 antibody ICC/IF image

Immunofluorescence: U2OS cells were blocked with 10% goat serum and then stained with ARG59454 anti-Peroxiredoxin 1 antibody (red) at 2  $\mu$ g/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



#### ARG59454 anti-Peroxiredoxin 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain stained with ARG59454 anti-Peroxiredoxin 1 antibody.



### ARG59454 anti-Peroxiredoxin 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer stained with ARG59454 anti-Peroxiredoxin 1 antibody.