

ARG66175 anti-Peroxiredoxin 1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Peroxiredoxin 1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Specificity	The antibody detects endogenous Peroxiredoxin 1 protein.
Host	Mouse
Clonality	Monoclonal
Target Name	Peroxiredoxin 1
Species	Human
Immunogen	Recombinant Protein of Human Peroxiredoxin 1.
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
	ICC/IF	1:100 - 1:200
	WB	1:1000 - 1:3000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

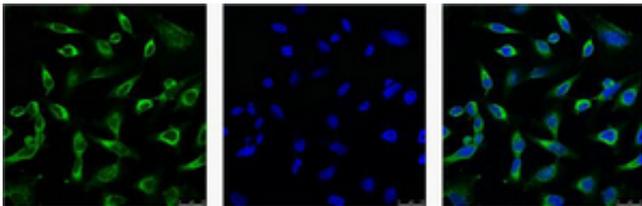
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% 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.
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
PTM	Phosphorylated on Thr-90 during the M-phase, which leads to a more than 80% decrease in enzymatic activity.

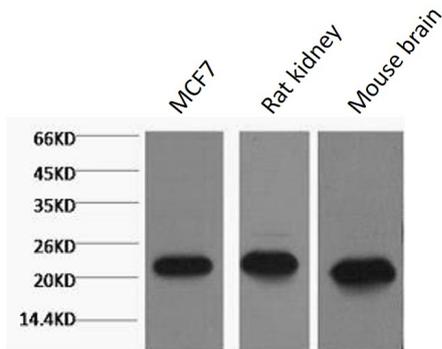
Images



ARG66175 anti-Peroxiredoxin 1 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG66175 anti-Peroxiredoxin 1 antibody (green).

Left: Target. Middle: DAPI. Right: merge image.



ARG66175 anti-Peroxiredoxin 1 antibody WB image

Western blot: 1) MCF7, 2) Rat kidney, and 3) Mouse brain lysates stained with ARG66175 anti-Peroxiredoxin 1 antibody at 1:2000 dilution.