



Peroxiredoxin- 2 Rabbit mAb

Catalog No	YP-rAb-18436
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	PRDX2
Protein Name	Peroxiredoxin-2
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	PRDX2 ; NKEFB ; TDPX1 ; Peroxiredoxin-2 ; Natural killer cell-enhancing factor B ; NKEF-B ; PRP ; Thiol-specific antioxidant protein ; TSA ; Thioredoxin peroxidase 1 ; Thioredoxin-dependent peroxide reductase 1
Observed Band	22kD
Calculated Molecular Weight	22kD
Cell Pathway	Cytoplasm .
Tissue Specificity	Brain,Cajal-Retzius cell,Cerebellum,Colon carcinoma,Erythrocyte,Fetal brain cortex,Hypothal
Function	Catalytic activity:2 R'-SH + ROOH = R'-S-S-R' + H(2)O + ROH.,Function:Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system. It is not able to receive electrons 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).,miscellaneous:Inactivated upon oxidative stress by overoxidation of Cys-51 to Cys-SO(2)H and Cys-SO(3)H. Cys-SO(2)H is retroreduced to Cys-SOH after removal of H(2)O(2), while Cys-SO(3)H may be irreversibly oxidized.,miscellaneous:The active site is the redox-active Cys-51 oxidized to Cys-SOH. Cys-SOH rapidly reacts with Cys-172-SH of the other subunit to form

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an intermolecular disulfide with a concomitant homodimer formation. The enzyme may be subsequently regenerated by reduction of the disulfide by thioredoxin.,similarity:Belongs to the ahpC/TSA family.,similarity:Contains 1 thioredoxin domain.,subunit:Homodimer; disulfide-linked, upon oxidation. May be found as a toroid-shaped decamer composed of 5 dimers, depending on pH and calcium concentration. Interacts with TIPIN.,

Background

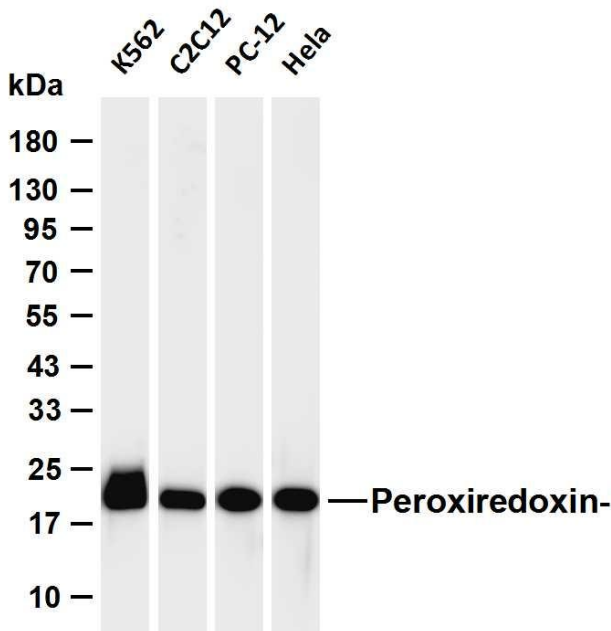
This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein plays an antioxidant protective role in cells, and it may contribute to the antiviral activity of CD8(+) T-cells. The crystal structure of this protein has been resolved to 2.7 angstroms. This protein prevents hemolytic anemia from oxidative stress by stabilizing hemoglobin, thus making this gene a therapeutic target for patients with hemolytic anemia. This protein may have a proliferative effect and play a role in cancer development or progression. Related pseudogenes have been identified on chromosomes 5, 6, 10 and 13. [provided by RefSeq, Mar 2013],

matters needing attention

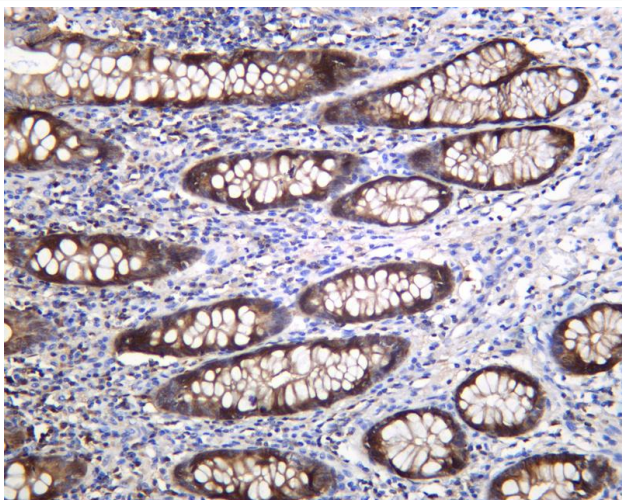
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Peroxiredoxin-2 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: K562 Lane 2: C2C12 Lane 3: PC-12 Lane 4: HeLa Predicted band size: 22kDa Observed band size: 22kDa



Human appendix was stained with anti-Peroxiredoxin-2 Rabbit antibody

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