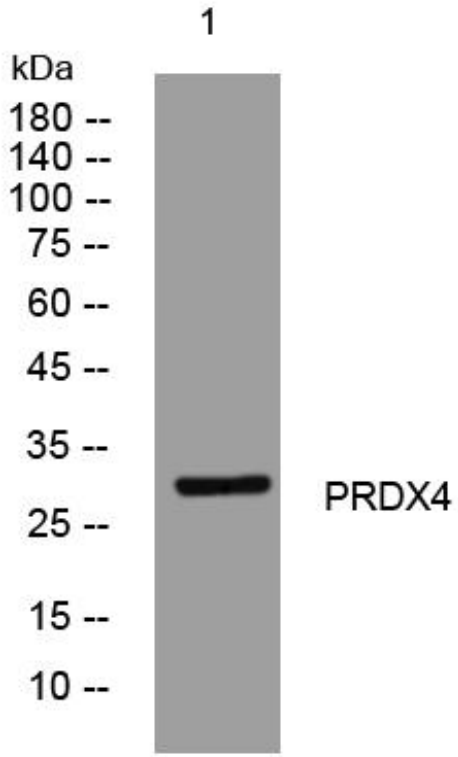
PRDX4 mouse mAb

Catalog No	BYmab-11558
Isotype	IgG
Reactivity	Human; Mouse;Rat
Applications	WB
Gene Name	PRDX4
Protein Name	PRDX4
Immunogen	Synthesized peptide derived from human PRDX4 AA range: 112-162
Specificity	This antibody detects endogenous levels of PRDX4 at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Cell Pathway	Cytoplasm . Endoplasmic reticulum . Cotranslationally translocated to and retained within the endoplasmic reticulum. A small fraction of the protein is cytoplasmic. .
Tissue Specificity	
Function	catalytic activity:2 R'-SH + ROOH = R'-S-S-R' + H(2)O + ROH.,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.,miscellaneous:Irreversibly inactivated by overoxidation of Cys-124 (to Cys-SO(3)H) upon oxidative stress.,miscellaneous:The active site is the redox-active Cys-124 oxidized to Cys-SOH. Cys-SOH rapidly reacts with Cys-245-SH of the other subunit to form 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 or heterodimer with PRDX1; disulfide-linked, upon oxidation.,

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-kapMAB. [provided by RefSeq, Jul 2008],
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.

Products Images



Western Blot analysis of various cells using PRDX4 mouse mAb