Rabbit anti-Human Peroxiredoxin 5 Monoclonal Antibody | anti-PRDX5 antibody

Recombinant Anti-Peroxiredoxin 5 Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255376	**Rabbit**	**Human**	**Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

Peroxiredoxin 5; Monoclonal Antibody; Recombinant Anti-Peroxiredoxin 5 Antibody; Rabbit Monoclonal; Peroxiredoxin 5/PRDX5 Antibody; Rabbit MAb; peroxiredoxin 5; Anti-ACR1 Antibody; Anti-AOEB166 Antibody; Anti-B166 Antibody; Anti-HEL-S-55 Antibody; Anti-PLP Antibody; Anti-PMP20 Antibody; Anti-PRDX6 Antibody; Anti-prx-V Antibody; Anti-PRXV Antibody; Anti-SBBI10 Antibody; anti-PRDX5 antibody

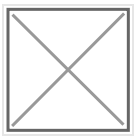
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	002
Specificity	Human Peroxiredoxin 5/PRDX5
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PRDX5 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human Peroxiredoxin 5/PRDX5 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human Peroxiredoxin 5/PRDX5 (rh Peroxiredoxin 5/PRDX5).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

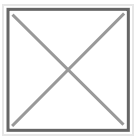
IMAGES

WB (Western Blot)
Anti-PRDX5 rabbit monoclonal antibody at 1:1000 dilutionLane A: PRDX5 konckout Hela Whole Cell LysateLane B: Hela Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under reducing conditions.Predicted band size:22 kDaObserved band size:15 kDa

IF (Immunofluorescence)
Immunofluorescence staining of PRDX5 in Hela cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-human PRDX5 monoclonal antibody (1:60) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).



WB (Western Blot)
Anti-PRDX5 rabbit monoclonal antibody at 1:500 dilutionLane A: Hela Whole Cell LysateLane B: 293T Whole Cell LysateLane C: Jurkat Whole Cell LysateLane D: 293 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:22 kDaObserved band size:15 kDa



IP (Immunoprecipitation)
PRDX5 was immunoprecipitated using:Lane A:0.5 mg Hela Whole Cell LysateLane B:0.5 mg Jurkat Whole Cell LysateLane C:0.5 mg 293T Whole Cell Lysate2 uL anti-PRDX5 rabbit monoclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-PRDX5 rabbit monoclonal antibody,at 1:500 dilutionSecondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 22 kDaObserved band size: 22 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PRDX5 antibody	Peroxiredoxin-5, also known as Alu corepressor 1, Antioxidant enzyme B166, Liver tissue 2D-page spot 71B, Peroxisomal antioxidant enzyme, Thioredoxin peroxidase PMP20, Thioredoxin reductase, PRDX5 and ACR1, is cytoplasm protein that belongs to the peroxiredoxin 2 family. Peroxiredoxin-5/PRDX5 reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thioredoxin system. Peroxiredoxin-5/PRDX5 is involved in intracellular redox signaling. The Peroxiredoxins/Prx are a family of 25 kDa peroxidases that can reduce H2O2 using an electron from thioredoxin (Trx) or other substances. The mammalian Peroxiredoxins/Prx family is divided into six groups (PRDX1, PRDX2, PRDX3, PRDX4, PRDX5, PRDX6) on the basis of homology of amino acid sequences. They are located in the cytosol and play a role in the cell signaling system. All six mammalian peroxiredoxins are expressed in the lung. Peroxiredoxins/Prx is overexpressed in breast cancer tissues to a great extent suggesting that Peroxiredoxins/Prx has a proliferative effect and may be related to cancer development or progression.
References	Seo M.S., et al., 2000, J. Biol. Chem. 275: 20346-54. Declercq J.-P., et al., 2001, J. Mol. Biol. 311:751-9. Noh, D.Y. et al., 2001, Anticancer Res. 21 (3B): 2085-90. Schremmer, B. et al., 2007, Subcell Biochem. 44 :317-44.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6912238
NCBI GeneID	25824
NCBI Accession #	NP_036226.1
NCBI GenBank Nucleotide #	NM_012094.4
UniProt Accession #	P30044; Q14CK0; Q6IAF2; Q9UBU5; Q9UJU4; Q9UKX4; A6NC19; A6NG06; B7ZLJ4; B7ZVW3
Molecular Weight	214
NCBI Official Full Name	peroxiredoxin-5, mitochondrial isoform a
NCBI Official Synonym Full Names	peroxiredoxin 5
NCBI Official Symbol	PRDX5
NCBI Official Synonym Symbols	PLP; ACR1; B166; PRXV; PMP20; PRDX6; prx-V; SBBI10; AOEB166
NCBI Protein Information	peroxiredoxin-5, mitochondrial; TPx type VI; peroxiredoxin V; Alu co-repressor 1; thioredoxin reductase; antioxidant enzyme B166; thioredoxin peroxidase PMP20; liver tissue 2D-page spot 71B; peroxisomal antioxidant enzyme
UniProt Protein Name	Peroxiredoxin-5, mitochondrial
UniProt Gene Name	**PRDX5**
UniProt Synonym Gene Names	ACR1; AOEB166; Prx-V
UniProt Entry Name	PRDX5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.