

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

Anti-Peroxiredoxin 5 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255377	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

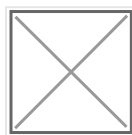
PRODUCT SYNONYMS

Peroxiredoxin 5; Polyclonal Antibody; Anti-Peroxiredoxin 5 Antibody; Rabbit Polyclonal; Peroxiredoxin 5/PRDX5 Antibody; Rabbit PAb; Antigen Affinity Purified; 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

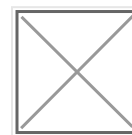
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Peroxiredoxin 5/PRDX5
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PRDX5 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human Peroxiredoxin 5/PRDX5 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human Peroxiredoxin 5/PRDX5 (rh Peroxiredoxin 5/PRDX5). Peroxiredoxin 5/PRDX5 specific IgG was purified by Human Peroxiredoxin 5/PRDX5 affinity chromatography.
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 polyclonal antibody at 1:2000 dilution Lane A: HeLa Whole Cell Lysate Lane B: 293T Whole Cell Lysate Lane C: Jurkat Whole Cell Lysate Lane D: 293 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 22 kDa Observed band size: 15 kDa



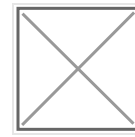
IP (Immunoprecipitation)

PRDX5 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate Lane B: 0.5 mg Jurkat Whole Cell Lysate Lane C: 0.5 mg 293T Whole Cell Lysate 2 uL anti-PRDX5 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-PRDX5 rabbit polyclonal antibody, at 1:1000 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 22 kDa Observed band size: 22 kDa



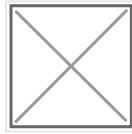
IHC (Immunohistochemistry)

Immunochemical staining of human PRDX5 in human brain with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections). The left panel: tissue incubated with primary antibody; The right panel: tissue incubated with the mixture of primary antibody and antigen (recombinant protein).



IHC (Immunohistochemistry)

Immunochemical staining of human PRDX5 in human kidney with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of human PRDX5 in human lung with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

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 H ₂ O ₂ 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; SBB110; 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

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pxoxiredoxin-5-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/255377>