

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

Anti-Peroxiredoxin 5 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257180	Rabbit	Mouse	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-AOEB166 Antibody; Anti-AOPP Antibody; Anti-Pmp20 Antibody; Anti-Prdx6 Antibody; Anti-PrxV Antibody; anti-PRDX5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Peroxiredoxin 5/PRDX5
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-PRDX5 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse Peroxiredoxin 5/PRDX5 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse Peroxiredoxin 5/PRDX5 (rM Peroxiredoxin 5/PRDX5). Peroxiredoxin 5/PRDX5 specific IgG was purified by Mouse 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. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

Mprdx5 was immunoprecipitated using: Lane A: 0.5 mg Mouse lung tissue Lysate 4 uL anti-Mprdx5 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-Mprdx5 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 22 kDa. Observed band size: 16 kDa.



IHC (Immunohistochemistry)

Immunohistochemical staining of mouse PRDX5 in mouse colon with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of mouse PRDX5 in mouse kidney with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-PRDX5 rabbit polyclonal antibody at 1:500 dilution Lane A: Mouse lung tissue lysate Lane B: Mouse brain tissue lysate Lane C: Mouse liver tissue lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 22 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PRDX5 antibody	Peroxisome oxidin-5, also known as Alu corepressor 1, Antioxidant enzyme B166, Liver tissue 2D-page spot 71B, Peroxisomal antioxidant enzyme, Thiooxidin peroxidase PMP20, Thiooxidin reductase, PRDX5 and ACR1, is cytoplasm protein that belongs to the peroxidin 2 family. Peroxisome oxidin-5/PRDX5 reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thiooxidin system. Peroxisome oxidin-5/PRDX5 is involved in intracellular redox signaling. The Peroxisome oxidins/Prx are a family of 25 kDa peroxidases that can reduce H ₂ O ₂ using an electron from thiooxidin (Trx) or other substances. The mammalian Peroxisome oxidins/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 peroxidins are expressed in the lung. Peroxisome oxidins/Prx is overexpressed in breast cancer tissues to a great extent suggesting that Peroxisome oxidins/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 #	6755114
NCBI GeneID	54683
NCBI Accession #	NP_036151.1
NCBI GenBank Nucleotide #	NM_012021.2
UniProt Accession #	P99029; Q9QX45; Q9QZ75
Molecular Weight	21,897 Da
NCBI Official Full Name	peroxidin-5, mitochondrial
NCBI Official Synonym Full Names	peroxidin 5
NCBI Official Symbol	Prdx5
NCBI Official Synonym Symbols	AOPP; PrxV; Pmp20; Prdx6; AOEB166
NCBI Protein Information	peroxidin-5, mitochondrial; PLP; prx-V; peroxidin 6; peroxidin V; thiooxidin reductase; antioxidant enzyme B166; thiooxidin peroxidase PMP20; peroxisomal antioxidant enzyme; peroxisomal membrane protein 20; liver tissue 2D-page spot 2D-0014I
UniProt Protein Name	Peroxisome oxidin-5, mitochondrial
UniProt Gene Name	Prdx5
UniProt Synonym Gene Names	Prdx6; AOEB166; Prx-V
UniProt Entry Name	PRDX5_MOUSE

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.