

Anti-Peroxiredoxin 5 Antibody (6B923)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6B923
Purification:	Protein A

Applications

1. 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 µL anti-PRDX5 rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose.
 - Primary antibody:
 - Anti-PRDX5 rabbit monoclonal antibody, at 1:500 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.
2. Anti-PRDX5 rabbit monoclonal antibody at 1:500 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 µg 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.
3. 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°C overnight. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).
4. Anti-PRDX5 rabbit monoclonal antibody at 1:1000 dilution.
 - Lane A: PRDX5 knockout HeLa Whole Cell Lysate.
 - Lane B: HeLa Whole Cell lysate.
 - Lysates/proteins at 30 µg per lane.
 - Secondary
 - Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.
 - Developed using the ECL technique.

Verified Activity:

A DRUG SCREENING EXPERT

- Performed under reducing conditions.
- Predicted band size:22 kDa.
- Observed band size:15 kDa(Validation Experiment)

Application: ICC/IF,IP,WB

Recommended WB: 1:500-1:2000; ICC-IF: 1:20-1:100; IP: 4-8 µL/mg of lysate

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human Peroxiredoxin 5 / PRDX5 protein (TMPY-02208)

Antigen Species: Human

Synonyms: PrxV;Pmp20;AOPP;Prdx5;peroxiredoxin 5;AOEB166

Research Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481
