

PRDX4 Polyclonal Antibody

Catalog number: 10703-1-AP

Size: 25 µg/150 µl

Source: Rabbit

Isotype: IgG

Synonyms:

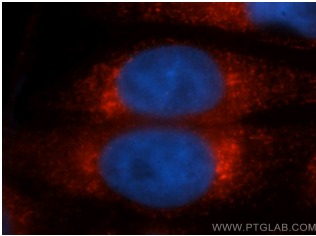
PRDX4; Antioxidant enzyme

AOE372, AOE37 2,

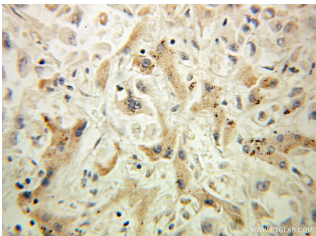
peroxiredoxin 4, Peroxiredoxin

IV, PRDX4, PRX 4, Prx IV,

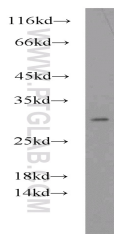
Thioredoxin peroxidase AO372



Immunofluorescent analysis of HepG2 cells, using PRDX4 antibody 10703-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human pancreas cancer using 10703-1-AP (PRDX4 antibody) at dilution of 1:100 (under 10x lens)



HepG2 cells were subjected to SDS PAGE followed by western blot with 10703-1-AP (PRDX4 antibody) at dilution of 1:800

Background

PRDX4 (Peroxiredoxin-4) is also named as AOE37-2, Prx-IV and belongs to the AhpC/TSA family. PRDX4 is associated with acrosome formation during rat spermatogenesis and has a protective role in the male reproductive tract, because the phenotype of mice lacking this isoform includes testicular atrophy and increased sperm DNA damage (PMID:20864641). It is initially synthesized as a membrane-binding 31-kDa protein and processed into a 27-kDa secretory form and is discarded with the residual bodies (PMID:19208552). PRDX4 is a pentamer of dimers (PMID:23025503). This antibody is specific to PRDX4.

Applications

| | |
|--------------------------|--|
| Tested applications: | ELISA, WB, IHC, IF, FC, IP |
| Cited applications: | IHC, WB |
| Species specificity: | Human, Mouse, Rat; other species not tested. |
| Cited species: | Human |
| Calculated PRDX4 MW: | 31 kDa |
| Observed PRDX4 MW: | 30kd |
| Positive WB detected in | HepG2 cells |
| Positive IP detected in | HepG2 cells |
| Positive IHC detected in | Human pancreas cancer tissue, human prostate cancer tissue |
| Positive IF detected in | HepG2 cells |
| Positive FC detected in | HepG2 cells |
| Recommended dilution: | WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:20-1:200 FC: N/A |

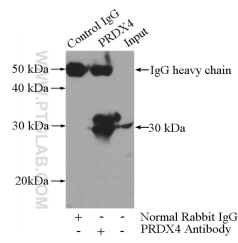
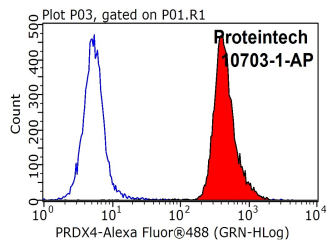
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

| | |
|---------------------------|-----------------|
| Immunogen: | Ag1177 |
| GenBank accession number: | BC007107 |
| Gene ID (NCBI): | 10549 |
| Full name: | Peroxiredoxin 4 |

Product information

| | |
|----------------------|---|
| Purification method: | Antigen affinity purification |
| Storage: | PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C. |



1X10⁶ HepG2 cells were stained with 0.2ug PRDX4 antibody (10703-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

IP Result of anti-PRDX4
 (IP:10703-1-AP, 3ug;
 Detection:10703-1-AP 1:500)
 with HepG2 cells lysate
 4000ug.