

peroxiredoxin 2 Polyclonal Antibody

Catalog number: 10545-2-AP

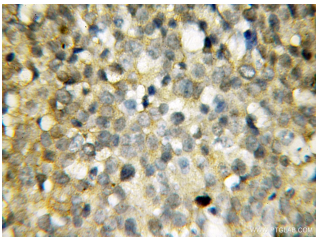
Size: 30 µg/150 µl

Source: Rabbit

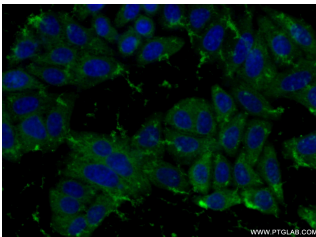
Isotype: IgG

Synonyms:

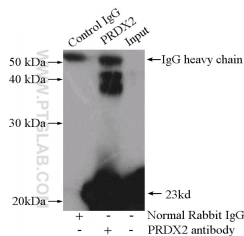
PRDX2; NKEF B, NKEFB,
peroxiredoxin 2, PRDX2, PRP,
PRX II, PRX2, PRXII, TDPX1,
Thioredoxin peroxidase 1, TSA



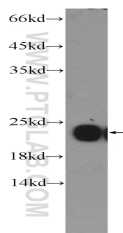
Immunohistochemical of paraffin-embedded human ovary tumor using 10545-2-AP (PRDX2 antibody) at dilution of 1:50 (under 10x lens)



Immunofluorescent analysis of (-20 Ethanol) fixed HepG2 cells using 10545-2-AP (PRDX2 Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



IP Result of anti-PRDX2 (IP:10545-2-AP, 4µg; Detection:10545-2-AP 1:1000) with HEK-293 cells lysate 2800µg.



Background

PRDX2, also named as TSA, PRP, NKEFB and TDPX1, belongs to the ahpC/TSA family. It is known to act as an antioxidant enzyme whose main function is H₂O₂ reduction in cells. PRDX2 is involved in redox regulation of the cell. It reduces peroxides with reducing equivalents provided through the thioredoxin system. It may play an important role in eliminating peroxides generated during metabolism. PRDX2 might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H₂O₂. PRDX2 actions may be related to the expression of NFKB and IKB.(PMID:21248284)

Applications

Tested applications:	ELISA, IHC, WB, IP, IF
Cited applications:	IF, IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse
Calculated peroxiredoxin 2 MW:	22 kDa
Observed peroxiredoxin 2 MW:	22 kDa
Positive WB detected in	HeLa cells, HepG2 cells, human brain tissue, SMMC-7721 cells
Positive IP detected in	HEK-293 cells
Positive IHC detected in	Human ovary tumor tissue
Positive IF detected in	HepG2 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:50-1:500

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

Immunogen information

Immunogen:	Ag0835
GenBank accession number:	BC003022
Gene ID (NCBI):	7001
Full name:	Peroxiredoxin 2

Product information

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

HeLa cells were subjected to SDS PAGE followed by western blot with 10545-2-AP (PRDX2 Antibody) at dilution of 1:1000