

Datasheet for ABIN3015730
anti-GPX4 antibody (AA 30-197)

8 Images

1 Publication

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Overview

Quantity:	100 µL
Target:	GPX4
Binding Specificity:	AA 30-197
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPX4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 30-197 of human GPX4 (NP_002076.2).
Sequence:	ASRDDWRCAR SMHEFSAKDI DGHMVNLDKY RGFVCIVTNV ASQUGKTEVN YTQLVDLHAR YAEGLRILA FPCNQFGKQE PGSNEEIKEF AAGYNVKFDM FSKICVNGDD AHPLWKWMI QPKGKGILGN AIKWNFTKFL IDKNGCVVKR YGPMEEPLVI EKDLPHYF
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	GPX4
Alternative Name:	GPX4 (GPX4 Products)
Background:	<p>The protein encoded by this gene belongs to the glutathione peroxidase family, members of which catalyze the reduction of hydrogen peroxide, organic hydroperoxides and lipid hydroperoxides, and thereby protect cells against oxidative damage. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme has a high preference for lipid hydroperoxides and protects cells against membrane lipid peroxidation and cell death. It is also required for normal sperm development, thus, it has been identified as a 'moonlighting' protein because of its ability to serve dual functions as a peroxidase, as well as a structural protein in mature spermatozoa. Mutations in this gene are associated with Sedaghatian type of spondylometaphyseal dysplasia (SMDS). This isozyme is also a selenoprotein, containing the rare amino acid selenocysteine (Sec) at its active site. Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. Alternatively spliced transcript variants have been found for this gene.,GPX4,GPx-4,GSHPx-4,MCSP,PHGPx,SMDS,snGPx,snPHGPx,Cancer,Signal Transduction,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,GPX4</p>
Molecular Weight:	19 kDa/22 kDa
Gene ID:	2879
UniProt:	P36969

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200,IP,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

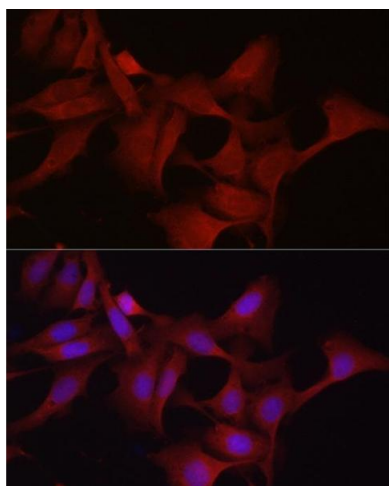
Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in: Zhang, Chen, Wu, Zhang, Zhang, Yue, Li, Liu, Li, Shen, Wang, Bai, Protzer, Levvero, Yuan: "PRMT5 restricts hepatitis B virus replication through epigenetic repression of covalently closed circular DNA transcription and interference with pregenomic RNA encapsidation." in: **Hepatology (Baltimore, Md.)**, Vol. 66, Issue 2, pp. 398-415, (2017) ([PubMed](#)).

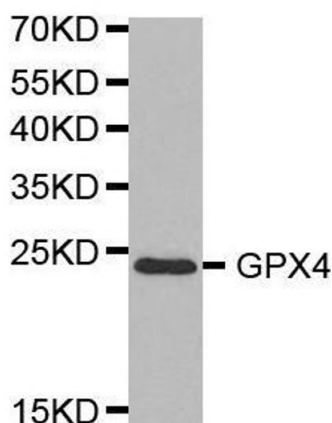
Images



Immunofluorescence

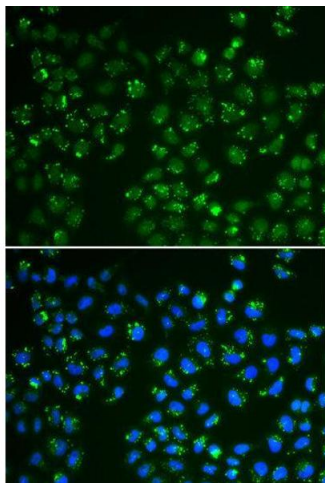
Image 1. Immunofluorescence analysis of U2OS cells using GPX4 Rabbit pAb (ABIN3015729, ABIN3015730, ABIN3015731, ABIN1680090 and ABIN6219078) at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.

Mouse kidney



Western Blotting

Image 2.



Immunofluorescence

Image 3. Immunofluorescence analysis of A549 cell using GPX4 antibody. Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN3015730.