

Datasheet for ABIN7249606 anti-Glutathione Peroxidase 1 antibody

Image



Overview

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Quantity:	200 μL		
Target:	Glutathione Peroxidase 1 (GPX1)		
Reactivity:	Mouse, Rat		
Host:	Rabbit		
Clonality:	Polyclonal		
Conjugate:	This Glutathione Peroxidase 1 antibody is un-conjugated		
Application:	Western Blotting (WB)		
Product Details			
Immunogen:	KLH conjugated Synthetic peptide corresponding to Mouse GPX1		
Isotype:	lgG		
Characteristics:	Polyclonal Antibody		
Purification:	Affinity purification		
Target Details			
Target:	Glutathione Peroxidase 1 (GPX1)		
Alternative Name:	GPX1 (GPX1 Products)		
Background:	The protein encoded by this gene belongs to the glutathione peroxidase family, members of		
	which catalyze the reduction of organic hydroperoxides and hydrogen peroxide (H2O2) by		
	glutathione, and thereby protect cells against oxidative damage. Other studies indicate that		

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	and maintenance of thiol redox-balance, therefore, by limiting H2O2 accumulation, glutathione
	peroxidases are also involved in modulating these processes. Several isozymes of this gene
	family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme
	is the most abundant, is ubiquitously expressed and localized in the cytoplasm, and whose
	preferred substrate is hydrogen peroxide. It 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. This gene contains an
	in-frame GCG trinucleotide repeat in the coding region, and three alleles with 4, 5 or 6 repeats
	have been found in the human population. The allele with 4 GCG repeats has been significantly
	associated with breast cancer risk in premenopausal women. Alternatively spliced transcript
	variants have been found for this gene. Pseudogenes of this locus have been identified on
	chromosomes X and 21.
Molecular Weight:	Observed_MW: 22 kDa
	Calculated_MW: 22 kDa
UniProt:	P11352, P04041
Pathways:	Thyroid Hormone Synthesis, Sensory Perception of Sound, Skeletal Muscle Fiber Development,
	Cell RedoxHomeostasis, Negative Regulation of intrinsic apoptotic Signaling, SARS-CoV-2
	Protein Interactome

Application Details

Application Notes:	WB 1:500-1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid		
Concentration:	400 μg/mL		
Buffer:	PBS with 0.02 % sodium azide, 1 % BSA and 50 % glycerol, pH 7.4		
Preservative:	Sodium azide		
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.		

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Handling

	Storage:	-20 °C			
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Storage Comment:

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

Images



Western Blotting

Image 1. Western Blot analysis of various samples using GPX1 Polyclonal Antibody at dilution of 1:1000.