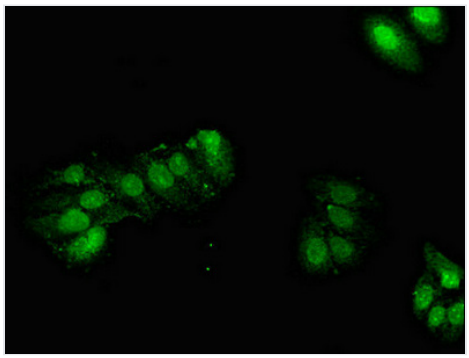
GPX2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GPX2, Polyclonal Antibody
Full Product Name	GPX2 Antibody
Product Gene Name	anti-GPX2 antibody
Product Synonym Names	Glutathione peroxidase 2; GPx-2; GSHPx-2; Gastrointestinal glutathione peroxidase; Glutathione peroxidase-gastrointestinal; GPx-GI; GSHPx-GI; Glutathione peroxidase-related protein 2; GPRP-2; GPX2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: GPX2 (MBS7052017) HRP Conjugated Antibody: GPX2 (MBS7052018)
Matching Pairs	Unconjugated Antibody: GPX2 (MBS7052017) FITC Conjugated Antibody: GPX2 (MBS7052019)
Matching Pairs	Unconjugated Antibody: GPX2 (MBS7052017) Biotin Conjugated Antibody: GPX2 (MBS7052020)
Molecular Weight	21,954 Da
OMIM	X53463 mRNA
3D Structure	ModBase 3D Structure for P18283
Immunogen	Recombinant Human Glutathione peroxidase 2 protein (71-168AA)
Conjugation	Non-conjugated
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GPX2 antibody	ELISA (EIA), Immunofluorescence (IF)
Application Notes for anti-GPX2 antibody	IF: 1:50-1:200
Related Product Information for anti-GPX2 antibody	Could play a major role in protecting mammals from the toxicity of ingested organic hydroperoxides. Tert-butyl hydroperoxide, cumene hydroperoxide and linoleic acid hydroperoxide but not phosphatidycholine hydroperoxide, can act as acceptors.
Other Notes	Small volumes of anti-GPX2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for GPX2 purchase	MBS7052017 is an antibody targeting GPX2. Also known as GPX2 Antibody. Reactive in Human. Host: Rabbit.



Immunofluorescence (IF) of anti-GPX2 antibody
Immunofluorescent analysis of HepG2 cells using MBS7052017 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPX2. It may not necessarily be applicable to this product.

NCBI GI #	32967607
NCBI GeneID	2877
NCBI Accession #	NP_002074.2
UniProt Primary Accession #	P18283
UniProt Secondary Accession #	Q6PJ52; Q8WWI7; Q9NRP9
UniProt Related Accession #	P18283
GenBank Nucleotide #	NM_002083.3
NCBI Official Full Name	glutathione peroxidase 2
NCBI Official Synonym Full Names	glutathione peroxidase 2
NCBI Official Symbol	GPX2
NCBI Official Synonym Symbols	GPRP; GPx-2; GI-GPx; GPRP-2; GPx-GI; GSHPx-2; GSHPX-GI
UniProt Protein Name	Glutathione peroxidase 2
UniProt Synonym Protein Names	Gastrointestinal glutathione peroxidase; Glutathione peroxidase-gastrointestinal; GPx-GI; GSHPx-GI; Glutathione peroxidase-related protein 2; GPRP-2
Protein Family	Glutathione peroxidase
UniProt Gene Name	GPX2
UniProt Synonym Gene Names	GPx-2; GSHPx-2; GPx-GI; GSHPx-GI; GPRP-2
NCBI Protein Information	glutathione peroxidase 2

NCBI Summary for GPX2	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. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme is predominantly expressed in the gastrointestinal tract (also in liver in human), is localized in the cytoplasm, and whose preferred substrate is hydrogen peroxide. Overexpression of this gene is associated with increased differentiation and proliferation in colorectal cancer. 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. [provided by RefSeq, Jul 2016]
UniProt Comments for GPX2	GPX2: Could play a major role in protecting mammals from the toxicity of ingested organic hydroperoxides. Tert-butyl hydroperoxide, cumene hydroperoxide and linoleic acid hydroperoxide but not phosphatidycholine hydroperoxide, can act as acceptors. Belongs to the glutathione peroxidase family. Protein type: EC 1.11.1.9; Lipid Metabolism - arachidonic acid; Other Amino Acids Metabolism - glutathione; Oxidoreductase Chromosomal Location of Human Ortholog: 14q23.3 Cellular Component: cytoplasm; cytosol Molecular Function: electron carrier activity; glutathione peroxidase activity Biological Process: response to reactive oxygen species
Research Articles on GPX2	**1.** Cardamonin exposure and selenium availability regulate expression of HO-1, GPX2 and TrxR1 in human intestinal cells.
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