# GPX2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | GPX2, Polyclonal Antibody |
| **Full Product Name** | GPX2 Antibody, FITC conjugated |
| **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)<br>FITC Conjugated Antibody: GPX2 (MBS7052019) |
| **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** | FITC |
| **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) |
| **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** | MBS7052019 is an antibody targeting GPX2. Also known as GPX2 Antibody, FITC conjugated. Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

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

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| **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.<br><br>Protein type: EC 1.11.1.9; Lipid Metabolism - arachidonic acid; Other Amino Acids Metabolism - glutathione; Oxidoreductase<br><br>Chromosomal Location of Human Ortholog: 14q23.3<br><br>Cellular Component: cytoplasm; cytosol<br><br>Molecular Function: electron carrier activity; glutathione peroxidase activity<br><br>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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