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# GPX3 Rabbit pAb

Catalog # AP99911

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | P22352 |
| **Other Accession** | P22352 |
| **Reactivity** | Rat |
| **Predicted** | Pig, Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 25552 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human GPX3 |
| **Epitope Specificity** | 1-100/226 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Belongs to the glutathione peroxidase family. |
| **SUBUNIT** | Homotetramer. |
| **Post-translational modifications** | The N-terminus is blocked. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | Glutathione peroxidases(Gpxs) are ubiquitously expressed proteins which catalyze the reduction of hydrogen peroxides and organichydroperoxides by glutathione. There are several isoforms which differ in their primary structure and localization. The classical cytosolic/mitochondrial GPx1 (cGPx) is a selenium-dependent enzyme, first of the GPxfamily to be discovered. GPx2, also known as gastrointestinal GPx(GI-GPx), is an intracellular enzyme expressed only at the epithelium of the gastrointestinal tract.Extracellular plasma GPx(pGPxor GPx3) is mainly expressed by the kidney from where it is released into the blood. Phospholipid hydroperoxide GPx4 (PH-GPx) expressed in most tissues, can reduce many hydroperoxides including hydroperoxides integrated in membranes, hydroperoxylipids in low density lipoprotein orthymine. All mammalian GPx family members, except for the recently described Cys containing GPx3 and epididymis-specific secretory GPx(eGPxor GPx5)isoforms, possess selenocysteine at the active site. |

## Additional Information

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| **Gene ID** | 2878 |
| **Other Names** | GPX3_HUMAN; GPX3; GPx-3; GSHPx-3; Extracellular glutathione peroxidase; Plasma glutathione peroxidase (GPx-P \| GSHPx-P); 1.11.1.9; GPXP; GPx-P; GSHPx-P; glutathione peroxidase 3; glutathione peroxidase 3 (plasma); |

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| | selenoprotein GPX3 |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | GPX3 ( HGNC:4555) |
| **Synonyms** | GPXP |
| **Function** | Protects cells and enzymes from oxidative damage, by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxide, by glutathione. |
| **Cellular Location** | Secreted. |
| **Tissue Location** | Secreted in plasma. |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.