

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Glutathione Peroxidase 3/GPX3 in Western blots and detects recombinant human and recombinant mouse Glutathione Peroxidase 3/GPX3 in direct ELISAs. In direct ELISAs, approximately 15% cross-reactivity with recom
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Glutathione Peroxidase 3/GPX3 Gly74-Lys226 Accession # P46412
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Glutathione Peroxidase 3 (GPX3), also known as Plasma Glutathione Peroxidase, is a 226 amino acid member of the glutathione peroxidase antioxidant enzyme family. The Glutathione Peroxidase family protects cell surfaces, extracellular fluid components, and enzymes from oxidative stress by catalysing the reduction of hydrogen peroxide, lipid peroxides, and organic hydroperoxide using reduced glutathione. GPX3 is secreted into plasma and like GPX1, is an ~100 kDa homotetramer consisting of four identical 23 kDa subunits, each containing a selenocysteine residue at the active site. GPX3 exhibits highest levels of mRNA expression in liver (human only), kidney, heart and lung tissues. Mouse GPX3 shares 89% and 99% amino acid identity with human and rat GPX3, respectively.

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