

Datasheet for ABIN7602892
anti-GPX3 antibody (C-Term)



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Overview

Quantity:	100 µg
Target:	GPX3
Binding Specificity:	C-Term
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPX3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-GPX3 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human GPX3. Human GPX3 shares 100% amino acid (aa) sequence identity with both mouse and rat GPX3.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-GPX3 Antibody Picoband® (ABIN7602892). Tested in WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	GPX3
Alternative Name:	GPX3 (GPX3 Products)
Background:	Synonyms: GPX3, GPXP, Glutathione peroxidase 3, GPx-3, GSHPx-3, EC 1.11.1.9, Extracellular glutathione peroxidase, Plasma glutathione peroxidase, GPx-P, GSHPx-P 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. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme is secreted, and is abundantly found in plasma. Downregulation of expression of this gene by promoter hypermethylation has been observed in a wide spectrum of human malignancies, including thyroid cancer, hepatocellular carcinoma and chronic myeloid leukemia. 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.
Molecular Weight:	26 kDa
Gene ID:	2878
UniProt:	P22352
Pathways:	Thyroid Hormone Synthesis

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat 1. Chambers, I., Frampton, J., Goldfarb, P., Affara, N., McBain, W., Harrison, P. R. The structure of the mouse glutathione peroxidase gene: the selenocysteine in the active site is encoded by the 'termination' codon, TGA. EMBO J. 5: 1221-1227, 1986. 2. Chu, F.-F. The human glutathione peroxidase genes GPX2, GPX3, and GPX4 map to chromosomes 14, 5, and 19, respectively. Cytogenet. Cell Genet. 66: 96-98, 1994. 3. Chu, F.-F., Esworthy, R. S., Doroshov, J. H., Doan, K., Liu, X.-F. Expression of glutathione peroxidase in human liver in addition to kidney, heart, lung, and breast in humans and rodents. Blood 79: 3233-3238, 1992.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.