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Datasheet for ABIN1714555

anti-Glutathione Peroxidase 2 antibody (AA 41-140)

Overview

Quantity:	100 µL
Target:	Glutathione Peroxidase 2 (GPX2)
Binding Specificity:	AA 41-140
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glutathione Peroxidase 2 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human GPX2/Glutathione Peroxidase 2
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Cow,Sheep,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	Glutathione Peroxidase 2 (GPX2)
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Target Details

Alternative Name:	GPX2/Glutathione Peroxidase 2 (GPX2 Products)
Background:	<p>Synonyms: Gastrointestinal glutathione peroxidase, GI GPx, Glutathione peroxidase 2 gastrointestinal, Glutathione peroxidase 2, Glutathione peroxidase gastrointestinal, Glutathione peroxidase related protein 2, Glutathione peroxidase-gastrointestinal, Glutathione peroxidase-related protein 2, GPRP, GPRP-2, GPx 2, GPx-2, GPx-GI, GPX2, GPX2_HUMAN, GSHPx 2, GSHPx GI, GSHPx-2, GSHPx-GI.</p> <p>Background: Glutathione peroxidase (GPx) enzymes are generally selenium-containing tetrameric glycoproteins that help prevent lipid peroxidation of cell membranes. GPx enzymes reduce lipid hydroperoxides to alcohols, and reduce free hydrogen peroxide to water. GPx members are among the few proteins known in higher vertebrates to contain selenocysteine, which occurs at the active site of glutathione peroxidase and is coded by the nonsense (stop) codon TGA. There are eight GPx homologs (GPx-18). GPx-1 plays an important role in the antioxidant defense of the vascular wall and neural cells in response to oxidative stress. GPx-2 is the major isoform in the lungs and its basal or inducible expression is dependent on Nrf2. GPx-3 is under regulation by hypoxic stress and the expression and deficiency of GPx-3 is associated with cardiovascular disease and stroke. GPx-5 is selenium-independent, it is bound to the acrosome of sperm, where it may protect sperm from premature acrosome reaction in the epididymis.</p>
Gene ID:	2877
Pathways:	Thyroid Hormone Synthesis

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months