ARG63970
anti-GPX1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes GPX1
Tested Reactivity	Hu, Pig
Tested Application	IHC-Fr, IHC-P, WB
Specificity	This antibody is expected to recognise isoform 1 (NP_000572.2) only.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	GPX1
Species	Human
Immunogen	C-REALPAPSDDATA
Conjugation	Un-conjugated
Alternate Names	GPXD; Glutathione peroxidase 1; GPx-1; Cellular glutathione peroxidase; EC 1.11.1.9; GSHPX1; GSHPx-1

Application Instructions

Application table

Application	Dilution
IHC-Fr	20 µg/ml
IHC-P	3 - 5 µg/ml
WB	1 - 3 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

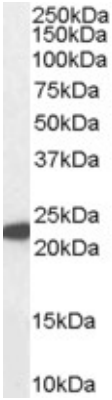
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

	before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

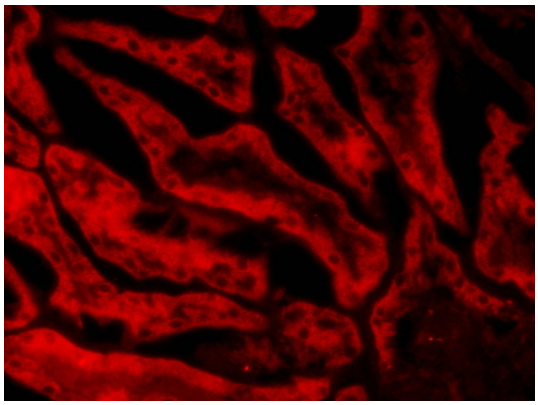
Database links	GeneID: 2876 Human GeneID: 397403 Pig Swiss-port # P07203 Human Swiss-port # Q8MJ14 Pig
Gene Symbol	GPX1
Gene Full Name	glutathione peroxidase 1
Background	This gene encodes a member of the glutathione peroxidase family. Glutathione peroxidase functions in the detoxification of hydrogen peroxide, and is one of the most important antioxidant enzymes in humans. This protein is one of only a few proteins known in higher vertebrates to contain selenocysteine, which occurs at the active site of glutathione peroxidase and is coded by UGA, that normally functions as a translation termination codon. In addition, this protein is characterized in a polyalanine sequence polymorphism in the N-terminal region, which includes three alleles with five, six or seven alanine (ALA) repeats in this sequence. The allele with five ALA repeats is significantly associated with breast cancer risk. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	22 kDa
PTM	During periods of oxidative stress, Sec-49 may react with a superoxide radical, irreversibly lose hydroselenide and be converted to dehydroalanine.

Images



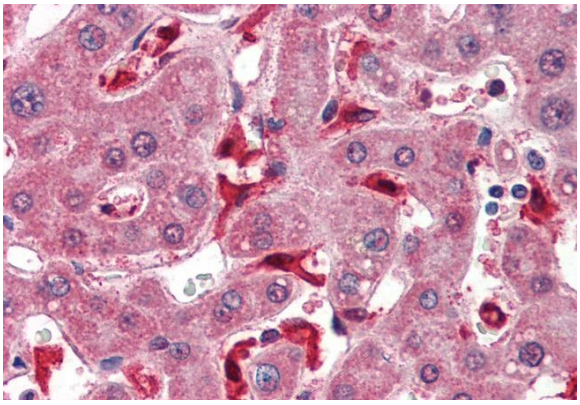
ARG63970 anti-Glutathione Peroxidase 1 antibody WB image

Western Blot: Human Liver lysate (35 µg protein in RIPA buffer) stained with ARG63970 anti-Glutathione Peroxidase 1 (iso1) antibody at 1 µg/ml dilution.



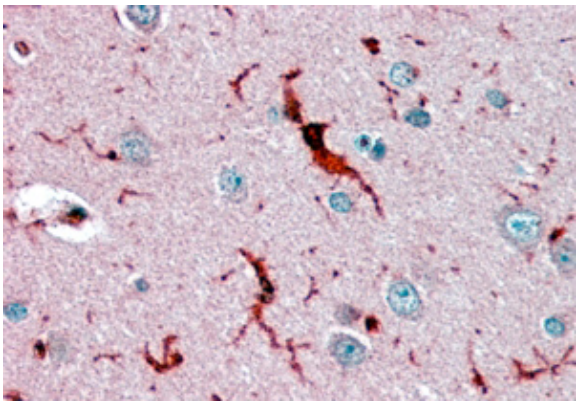
ARG63970 anti-GPX1 antibody IHC-Fr image

Immunohistochemistry: PFA-perfused cryosection of Pig kidney tissue stained with ARG63970 anti-GPX1 antibody at 20 µg/ml dilution.



ARG63970 anti-GPX1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63970 anti-GPX1 antibody at 3.75 µg/ml dilution followed by AP-staining.



ARG63970 anti-Glutathione Peroxidase 1 antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Cerebral Cortex. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG63970 anti-Glutathione Peroxidase 1 (iso1) antibody at 3.8 µg/ml dilution followed by AP-staining.