

ARG55164 anti-GPX1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GPX1
Tested Reactivity	Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GPX1
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 164-193 (C-terminus) of Human GPX1.
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
	FACS	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-P	Assay-dependent
	WB	1:1000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

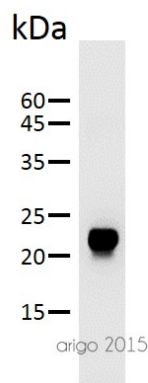
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
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: 14775 Mouse GeneID: 24404 Rat Swiss-port # P04041 Rat Swiss-port # P11352 Mouse
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 polyaniline 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]
Function	Protects the hemoglobin in erythrocytes from oxidative breakdown. [UniProt]
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.
Cellular Localization	Cytoplasm.

Images



ARG55164 anti-GPX1 antibody WB image

Western blot: 30 µg of Mouse liver lysate stained with ARG55164 anti-GPX1 antibody at 1:500 dilution.