

Recombinant Human GPX1 Protein, GST-tagged

Cat. No. GPX1-5308H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GPX1 full-length ORF (NP_000572.2, 1 a.a. - 48 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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]
Molecular Mass	31.1 kDa
AA Sequence	MCAARLAAAAAAQSVYAFSARPLAGGEPVSLGSLRGKVLLIENVASL
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein)

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	Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	GPX1 glutathione peroxidase 1 [Homo sapiens]
Official Symbol	GPX1
Synonyms	GPX1; glutathione peroxidase 1; GPx-1; GSHPx-1; cellular glutathione peroxidase; GPXD; GSHPX1; MGC14399; MGC88245;
Gene ID	2876
mRNA Refseq	NM_000581
Protein Refseq	NP_000572
MIM	138320
UniProt ID	P07203

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