



Glutathione Peroxidase 1 Rabbit pAb

db22300 Package: 20μL 50μL 100μL

Product Name: Glutathione Peroxidase 1 Rabbit pAb

Cat.No.: db22300

Synonyms: GPXD; GSHPX1

Application: WB, IHC, ICC/IF, FC, IP

Reactivity: Human, Rat Host species: Rabbit

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. Other studies indicate that H2O2 is also essential for growth-factor mediated signal transduction, mitochondrial function, and maintenance of thiol redox-balance; therefore, by limiting H2O2 accumulation, glutathione peroxidases are also involved in modulating these processes. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme is the most abundant, is ubiquitously expressed and localized in the cytoplasm, and whose preferred substrate is hydrogen peroxide. It 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. This gene contains an in-frame GCG trinucleotide repeat in the coding region, and three alleles with 4, 5 or 6 repeats have been found in the human population. The allele with 4 GCG repeats has been significantly associated with breast cancer risk in premenopausal women. Alternatively spliced transcript variants have been found for this gene. Pseudogenes of this locus have been identified on chromosomes X and 21. [provided by RefSeq, Aug 2017]

Immunogen A synthetic peptide of human Glutathione Peroxidase 1

Gene ID 2876

Swiss Prot P07203

Synonyms GPXD; GSHPX1

Reactivity Human, Rat

Application WB, IHC, ICC/IF, FC, IP

Recommended dilution WB: 1:1000

IHC: 1:50



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ICC/IF: 1:20

FC: 1:20

IP: 1:20

Calculated MW 22 kDa

Observed MW 22 kDa

Host species Rabbit

Clonality Polyclonal

Isotype IgG

Purity Affinity Purification

Conjugation Un-conjugated

Storage Stability Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium

azide and 0.05% BSA. Stable for 12 months from date of receipt.