

DGRmAb<sup>®</sup>

Recombinant

Glutathione Peroxidase 4 (DGR13808) Rabbit mAb

db14187

Package : 10µL 20µL 50µL 100µL

Product Name : Glutathione Peroxidase 4 (DGR13808) Rabbit mAb
Cat.No.: db14187
Synonyms : GPx-4; PHGPx; snGPx; GSHPx-4; mtPHGPx
Application : WB, IHC, ICC/IF, FC
Reactivity : Human, Mouse, Rat
Host species : Rabbit

## Background

Dackground	The protein encoded by this gene belongs to the glutathole peroxidase family, members of which
	catalyze the reduction of hydrogen peroxide, organic hydroperoxides and lipid hydroperoxides, and
	thereby protect cells against oxidative damage. Several isozymes of this gene family exist in
	vertebrates, which vary in cellular location and substrate specificity. This isozyme has a high
	preference for lipid hydroperoxides and protects cells against membrane lipid peroxidation and cell
	death. It is also required for normal sperm development; thus, it has been identified as a
	'moonlighting' protein because of its ability to serve dual functions as a peroxidase, as well as a
	structural protein in mature spermatozoa. Disruption of this gene in mouse spermatocytes is
	associated with male infertility. This isozyme 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. Alternatively spliced transcript
	variants have been found for this gene. Pseudogenes of this locus have been identified on
	chromosomes 10 and 17. [provided by RefSeq, Aug 2017]
Immunogen	A synthetic peptide of mouse Glutathione Peroxidase 4
Gene ID	625249
Swiss Prot	O70325
Synonyms	GPx-4; PHGPx; snGPx; GSHPx-4; mtPHGPx
Reactivity	Human, Mouse, Rat
Application	WB, IHC, ICC/IF, FC
Recommended dilution	WB: 1:1000-1:5000
	IHC: 1:50-1:200
	ICC/IF: 1:200-1:500

The protein encoded by this gene belongs to the glutathione peroxidase family, members of which



	FC: 1:200
Calculated MW	22 kDa
Observed MW	22 kDa
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR13808
lsotype	lgG
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.