







## 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** 

**Immunogen** 

The protein encoded by this gene belongs to the glutathione 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 stemloop 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]

A synthetic peptide of mouse Glutathione Peroxidase 4

**Gene ID** 625249

Swiss Prot 070325

**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



## For Research Use Only **Product Datasheet**

FC: 1:200

Calculated MW 22 kDa

Observed MW 22 kDa

Host species Rabbit

**Clonality** Monoclonal

Clonality No. DGR13808

**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.