

Recombinant

DGRmAb®

Glutathione Peroxidase 4 (DGR13808) Rabbit mAb (PBS Only)

db14187-PBS

Package : 10µg 100µg

Product Name : Glutathione Peroxidase 4 (DGR13808) Rabbit mAb (PBS Only)

Cat.No.: db14187-PBS

Synonyms : GPx-4; PHGPx; snGPx; GSHPx-4; mtPHGPx

Application : WB, IHC, ICC/IF, FC

Reactivity : Human, Mouse, Rat

Host species : Rabbit

Background

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 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

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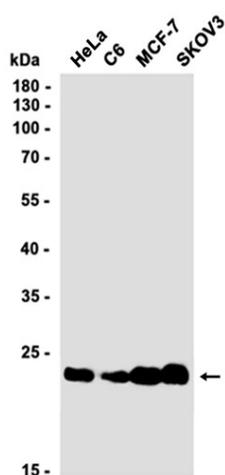
Calculated MW

22 kDa

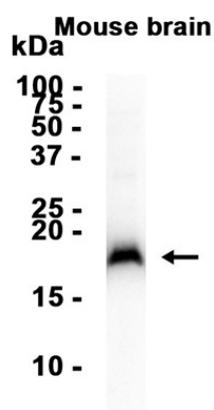
Observed MW

22 kDa

Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR13808
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.



Western blot analysis of extracts from HeLa, C6, MCF-7, SKOV3 cells using [db14187](#) at 1:1000.



Western blot analysis of extracts from Mouse brain tissue using [db14187](#) at 1:2000.