

Recombinant**DGRmAb®****Glutathione Peroxidase 3/GPx-3 (DGR20703) Rabbit mAb (PBS Only)****db12780-PBS****Package : 100µg****Product Name :** Glutathione Peroxidase 3/GPx-3 (DGR20703) Rabbit mAb (PBS Only)**Cat.No.:** db12780-PBS**Synonyms :** GPx; EGPx; GSHPx-3; GSHPx-P; AA960521**Application :** WB, IHC-P**Reactivity :** 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 organic hydroperoxides and hydrogen peroxide (H₂O₂) by glutathione, 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 is secreted and is highly expressed in mouse kidney, which appears to be the major source of the enzyme in plasma. It has a role in mouse organogenesis, and dysregulation of this isozyme has been associated with obesity-related metabolic complications, platelet-dependent thrombosis, colitis-associated carcinoma, and thermosensitive phenotype. 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. [provided by RefSeq, Aug 2016]

Immunogen

Recombinant protein of mouse Glutathione Peroxidase 3/GPx-3

Gene ID

14778

Swiss Prot

P23764

Synonyms

GPx; EGPx; GSHPx-3; GSHPx-P; AA960521

Reactivity

Mouse,Rat

Application

WB, IHC-P

Calculated MW

25 kDa

Observed MW

25 kDa

Host species

Rabbit

Clonality

Monoclonal

Clonality No.	DGR20703
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.

Rat kidneyWestern blot analysis of extracts from Rat kidney tissue using [db12780](#)**kDa**

250 -

150 -

100 -

70 -

50 -

40 -

35 -

25 -

20 -

15 -

10 -

