

Recombinant

DGRmAb®

Glutathione Peroxidase 3/GPx-3 (DGR20703) Rabbit mAb

db12780

Package : 10µL 20µL 50µL 100µL

Product Name : Glutathione Peroxidase 3/GPx-3 (DGR20703) Rabbit mAb**Cat.No.:** db12780**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

Recommended dilution

WB: 1:1000

IHC-P: 1:200-1:500

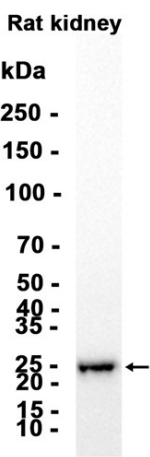
Calculated MW

25 kDa

Observed MW

25 kDa

Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR20703
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.



Western blot analysis of extracts from Rat kidney tissue using db12780 at 1:1000.