

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 (H<sub>2</sub>O<sub>2</sub>) 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.