



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-9; 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



For Research Use Only **Product Datasheet**

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.

Rat kidney

kDa

250 -

150 -

100 -

70 -50 -

40 -35 -

20 -

15 -10 - Western blot analysis of extracts from Rat kidney tissue using db12780 at 1:1000.