

Glutathione Peroxidase 4 (19B13) Rabbit Monoclonal Antibody

Catalog# UZ-MA02039

Product information

产品货号	UZ-MA02039
别名	GPx-4; PHGPx; snGPx; GSHPx-4; mtPHGPx
产品名称	Glutathione Peroxidase 4 (19B13) Rabbit Monoclonal Antibody
类别	抗体产品
推荐应用	WB,IHC-P,IF-ICC,FCM,IF-P
反应种属	Human,Mouse,Rat
存储缓冲液	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
免疫原	A synthetic peptide of mouse Glutathione Peroxidase 4
稀释度	WB 1:1000-1:5000, IHC-P/IF-P 1:50-1:200, IF-ICC 1:200-1:500, FCM 1:200
参考分子量	22kDa
预测分子量	22kDa
运输及保存条件	-20°C/1 year
宿主	Rabbit
同种型	IgG
背景介绍	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]
纯化	Affinity Purification
Uniprot ID	O70325
Clonality	Monoclonal