

谷胱甘肽过氧化酶 3

产品货号： mIR22009

英文名称： GPX3

中文名称： 谷胱甘肽过氧化酶 3

别 名： Extracellular glutathione peroxidase; Glutathione peroxidase 3 (plasma); Glutathione peroxidase 3; GPX 3; GPx P; GPx-3; GPx-P; GPX3; GPX3_HUMAN; GPXP; GSHPx 3; GSHPx P; GSHPx-3; GSHPx-P; Plasma glutathione peroxidase 3; Plasma glutathione peroxidase.

研究领域： 细胞生物 信号转导 新陈代谢 线粒体

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Pig, Cow,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量： 23kDa

细胞定位： 分泌型蛋白 线粒体

性 状： Lyophilized or Liquid

浓 度： 1mg/ml

免 疫 原： KLH conjugated synthetic peptide derived from human GPX3:1-100/226

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed : PubMed

产品介绍 : Glutathione peroxidases(Gpxs) are ubiquitously expressed proteins which catalyze the reduction of hydrogen peroxides and organichydroperoxides by glutathione. There are several isoforms which differ in their primary structure and localization. The classical cytosolic/mitochondrial GPx1 (cGPx) is a selenium-dependent enzyme, first of the GPxfamily to be discovered. GPx2, also known as gastrointestinal GPx(GI-GPx), is an intracellular enzyme expressed only at the epithelium of the gastrointestinal tract.Extracellular plasma GPx(pGPxor GPx3) is mainly expressed by the kidney from where it is released into the blood. Phospholipid hydroperoxide GPx4 (PH-GPx) expressed in most tissues, can reduce many hydroperoxides including hydroperoxides integrated in membranes, hydroperoxylipids in low density lipoprotein orthymine. All mammalian GPx family members, except for the recently described Cys containing GPx3 and epididymis-specific secretory GPx(eGPxor GPx5)isoforms, possess selenocysteine at the active site.

Function:

Protects cells and enzymes from oxidative damage, by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxide, by glutathione.

Subunit:

Homotetramer.

Subcellular Location:

Secreted.

Tissue Specificity:

Secreted in plasma.

Post-translational modifications:

The N-terminus is blocked.

Similarity:

Belongs to the glutathione peroxidase family.

SWISS:

P22352

Gene ID:

2878

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

谷胱甘肽过氧化物酶（GSH-Px）是机体内广泛存在的一种重要的过氧化物分解酶。硒是 GSH-Px 酶系的组成成分，它能催化 GSH 变为 GSSG，使有毒的过氧化物还原成无毒的羟基化合物，同时促进 H₂O₂ 的分解，从而保护细胞膜的结构及功能不受过氧化物的干扰及损害。GSH-Px 的活性中心是硒半胱氨酸，其活力大小可以反映机体硒水平。GSH-Px 酶系主要包括 4 种不同的 GSH-Px，分别为胞浆 GSH-Px、血浆 GSH-

Px、磷脂氢过氧化物 GSH-Px 及胃肠道专属性 GSH-Px。胞浆 GSH-Px 由 4 个相同的分子量大小为 22kDa 的亚基构成四聚体，每个亚基含有 1 个分子硒半胱氨酸，广泛存在于机体内各个组织，以肝脏红细胞为最多。它的生理功能主要是催化 GSH 参与过氧化反应，清除在细胞呼吸代谢过程中产生的过氧化物和羟自由基，从而减轻细胞膜多不饱和脂肪酸的过氧化作用

产品图片

