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Glutathione Peroxidase 4 (YD13808) Rabbit mAb

货号: **AYD14187**

产品信息

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| 反应 | Human, Mouse, Rat |
| 宿主 | Rabbit |
| 克隆性 | Monoclonal |
| 预测反应 | |
| 应用 | WB IHC ICC/IF FC |
| 推荐浓度 | |
| 理论分子量 | 22kDa |
| 实测分子量 | |
| 形式 | Liquid |
| 保存条件 | Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.75% BSA,50% glycerol,pH7.3. |
| 偶联物 | Unconjugated |
| 阳性对照 | |
| 细胞定位 | Mitochondrion, Cytoplasm, Nucleus |
| 纯化 | 亲和纯化 |

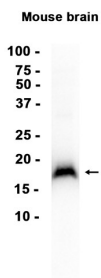
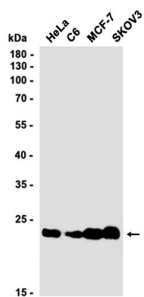
抗原信息

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靶点信息

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| 研究背景 | Essential antioxidant peroxidase that directly reduces phospholipid hydroperoxide even if they are incorporated in membranes and lipoproteins (PubMed:29290465). Can also reduce fatty acid hydroperoxide, cholesterol hydroperoxide and thymine hydroperoxide (By similarity). Plays a key role in protecting cells from oxidative damage by preventing membrane lipid peroxidation (PubMed:12566075). Required to prevent cells from ferroptosis, a non-apoptotic cell death resulting from an iron-dependent accumulation of lipid reactive oxygen species (PubMed:12566075, PubMed:24439385, PubMed:25402683, PubMed:25922076, PubMed:29290465). The presence of selenocysteine (Sec) versus Cys at the active site is essential for life: it provides resistance to overoxidation and prevents cells against ferroptosis (PubMed:29290465). The presence of Sec at the active site is also essential for the survival of a specific type of parvalbumin-positive interneurons, thereby preventing against fatal epileptic seizures (PubMed:29290465). May be required to protect cells from the toxicity of ingested lipid hydroperoxides (PubMed:12566075). Required for normal sperm development and male fertility (PubMed:19783653, PubMed:25922076). Essential for maturation and survival of photoreceptor cells (PubMed:22207760). Plays a role in a primary T-cell response to viral and parasitic infection by protecting T-cells from ferroptosis and by supporting T-cell expansion (PubMed:25824823). Plays a role of glutathione peroxidase in platelets in the arachidonic acid metabolism (By similarity). Reduces hydroperoxy ester lipids formed by a 15-lipoxygenase that may play a role as down-regulator of the cellular 15-lipoxygenase pathway (By similarity). Can also reduce small soluble hydroperoxide such as H ₂ O ₂ and tert-butyl hydroperoxide (PubMed:12566075) |
| 基因ID | 625249 |
| 基因名 | Gpx4 |
| Swiss | O70325 (https://www.uniprot.org/uniprotkb/O70325/entry) |
| 别名 | Glutathione Peroxidase 4 (YD13808),Glutathione Peroxidase 4 (YD13808) Rabbit mAb,Gpx4,Glutathione peroxidase 4 |

产品验证



实验步骤

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