

Recombinant Mouse Gpx3, FLAG-tagged

Cat. No. Gpx3-284M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse GPX3 (aa 1-226) is fused at the C-terminus to a FLAG-tag.
Species	Mouse
Source	HEK293
ProteinLength	1-226 a.a.
Description	Glutathione peroxidase 3 (GPX3) is a selenium-dependent extracellular enzyme, protecting cells and enzymes from oxidative damage by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxides. GPX3 is involved in inflammatory bowel disease, in asthma and in diabetes. The activity of GPX3 is significantly reduced in the plasma and tissue of cancer patients. Recently, GPX3 was suggested to serve as a molecular marker for the diagnosis of clear cell type ovarian adenocarcinoma.
Form	Liquid. 0.2µm-filtered solution in PBS, pH7.2.
Molecular Mass	~22kDa (SDS-PAGE)
Purity	≥90% (SDS-PAGE)
Stability	Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. After opening, prepare

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aliquots and store at -20°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	Gpx3 glutathione peroxidase 3 [<i>Mus musculus</i>]
Official Symbol	Gpx3
Synonyms	GPX3; glutathione peroxidase 3; GPx-3; GPx-P; plasma GPx; extracellular GPx; plasma glutathione peroxidase; GPx; EGPx; GSHPx-3; GSHPx-P; AA960521;
Gene ID	14778
mRNA Refseq	NM_008161
Protein Refseq	NP_032187
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Folic Acid Network, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; One carbon metabolism and related pathways, organism-specific biosystem;
Function	glutathione binding; glutathione peroxidase activity; glutathione peroxidase activity; oxidoreductase activity; peroxidase activity; selenium binding;

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