

Product Data Sheet: GPX1

Cat. No: MAB-94602

Size: 100µg 8B10 Clone: **Concentration:** 1mg/ml

Host: Ms Isotype: IaG

Immunogen:

A synthetic peptide corresponding to a sequence in the middle region of human GPX1

(116-146aa EVNGAGAHPLFAFLREALPAPSDDATALMTD), different from the related

mouse sequence by six amino acids and from the related rat sequence by five amino

acids.

Reactivity: Hu. Ms. Rt

Western blot: 0.2-1ug/ml Immunohistochemistry(Paraffin-embedded Section): **Applications:**

1-2ug/ml Flow Cytometry: 1-3ug/1x106 cells

Purification: Aff. Pur.

> Glutathione peroxidase 1, also known as, GPX-1 is an enzyme that in humans is encoded by the GPX1 gene. It is mapped to 3p21.31. This gene encodes a member of the glutathione peroxidase family, consisting of eight known glutathione peroxidases (Gpx1-8) in humans. Glutathione peroxidase functions in the detoxification of

> hydrogen peroxide, and is one of the most important antioxidant enzymes in humans.

It has been reported that the protein encoded by this gene protects from CD95-

Background:

induced apoptosis in cultured breast cancer cells and inhibits 5-lipoxygenase in blood cells, and its overexpression delays endothelial cell growth and increases resistance to toxic challenges. GPX1 is one of only a few proteins known in higher vertebrates to contain selenocysteine, which occurs at the active site of glutathione peroxidase and

is coded by the nonsense (stop) codon TGA.

Form:

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. **Buffer:**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be

Storage: aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and

thawing.