

Stressgen

Glutathione Peroxidase Monoclonal Antibody (GPX-347)

Product Specifications

Catalog Number:	SPA-541
Host:	Mouse
Isotype:	IgG ₁
Species Reactivity:	Human
Predicted m.w:	~23 kDa
Applications: <i>The optimal dilution for a specific application must be determined by the investigator</i>	WB: 1:100 IHC: 1-10 µg/mL
Concentration:	See product label
Purification:	Protein A Affinity
Format:	PBS, 50% glycerol
Storage:	Store at -20°C
Immunogen:	Native human glutathione peroxidase protein
Related Products:	
900-158	Glutathione Peroxidase Activity Kit
900-160	Total Glutathione Detection Kit
900-157	Glutathione Reductase Activity Kit
SPA-540	Glutathione NEM Monoclonal Antibody

Background:

Glutathione peroxidase (GPX) is a 92kDa protein consisting of four identical 22.5 kDa subunits. Cellular antioxidant enzymes such as glutathione peroxidase and superoxide dismutase play an important role in the control of reactive oxygen species. GPX is a selenoprotein that catalyzes the reduction of a variety of hydroperoxides, including lipid peroxide and hydrogen peroxide, thereby protecting biomembranes and essential cellular components against oxidative damage^{1,2}. *In vitro* data and studies in animal models have suggested that glutathione peroxidase may protect against atherosclerosis². Overexpression of Gpx has also been shown to protect against experimental stroke³.

References

1. Suemizu, H., *et al.* (1992) *Hybridoma* **11**, 795.
2. Blankenberg, S., *et al.* (2003) *N Engl J Med.* **349**, 1605-1613.
3. Hoehn, B., *et al.* (2003) *Stroke.* **34**, 2489-2494.