



# GPX1 Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA009866A0HU
<b>Abbreviation</b>	Glutathione peroxidase 1
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P07203
<b>Immunogen</b>	A synthesized peptide derived from human GPX1
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA
<b>Relevance</b>	Protects the hemoglobin in erythrocytes from oxidative breakdown.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Alias</b>	Glutathione peroxidase 1, GPx-1, GSHPx-1, Cellular glutathione peroxidase, GPX1
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Signal Transduction
<b>Gene Names</b>	GPX1
<b>Clone No.</b>	3G1

## Description

This GPX1 antibody is a recombinant monoclonal antibody. Its production process includes the cloning of the human GPX1 DNA gene into the vector and subsequent transfection of the clones into the cell line for in vitro expression. It can react with human GPX1 protein. It is purified using affinity-chromatography. This GPX1 recombinant antibody has been validated in ELISA application.

GPX1 is the first identified and the most abundant selenoprotein in mammals and is also an antioxidant enzyme counteracting oxidative stress. It plays an important role in protecting organisms from oxidative damage by scavenging hydrophilic peroxide species such as H<sub>2</sub>O<sub>2</sub>. Accumulating evidence has linked alteration or abnormality of GPX1 expression to the etiology of cancer, cardiovascular disease, neurodegeneration, autoimmune disease, and diabetes.