

## Glutathione Peroxidase (GPx) Assay Kit

Catalogue No.: abx294002

Glutathione Peroxidase (GPx) Assay Kit can be used to detect Glutathione Peroxidase (GPx) in serum, plasma, tissue homogenates, cell lysates and cell culture supernatants using a microplate reader. Glutathione peroxidase (GSH-Px) can promote the reaction of hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) and reduced glutathione to produce H<sub>2</sub>O and oxidized glutathione (GSSG). The activity of glutathione peroxidase can be expressed by the rate of enzymatic reaction. The activity of glutathione can be calculated by measuring the consumption of reduced glutathione. Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) and reduced glutathione can react without catalysis of GSH-Px, so the portion of GSH reduction by non-enzymatic reaction should be subtracted. GSH can react with dinitrobenzoic acid to produce 5-thio-dinitrobenzoic acid anion, which showed a stable yellow color. The concentration of GSH can be determined by measuring the absorbance at 412 nm.

<b>Target:</b>	Glutathione Peroxidase (GPx)
<b>Reactivity:</b>	General
<b>Storage:</b>	Shipped at 4 °C. Upon receipt, store the kit according to the storage instruction in the kit's manual.
<b>Validity:</b>	The validity for this kit is 12 months.
<b>Test Range:</b>	17.17 U - 518.32 U
<b>Sensitivity:</b>	17.17 U
<b>Detection Method:</b>	Colorimetric
<b>Assay Data:</b>	Quantitative
<b>Sample Type:</b>	Serum, plasma, tissue homogenates, cell lysates and cell culture supernatants.
<b>CAS Number:</b>	9013-66-5
<b>Note:</b>	This product is for research use only.