

GPX1 Antibody

✓ 100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #2876
Swiss-Prot Acc. #P07203

| Applications W, IP Endogenous | Species Cross-Reactivity* H | Molecular Wt. 22 kDa | Source Rabbit** |
|-------------------------------------|--------------------------------|-------------------------|--------------------|
|-------------------------------------|--------------------------------|-------------------------|--------------------|

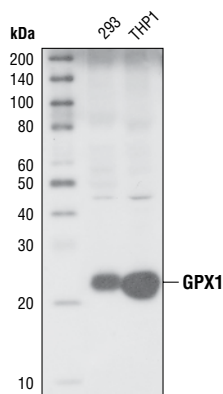
Background: Glutathione peroxidase 1 (GPX1) is a cytosolic selenoprotein which reduces hydrogen peroxide to water (1). GPX1 is the most abundant and ubiquitous among the five GPX isoforms identified so far (2). It is an important component in the anti-oxidative defense in cells and is associated with a variety of disease conditions, such as colon cancer (3), coronary artery disease (4) and insulin resistance (1).

Specificity/Sensitivity: GPX1 Antibody detects endogenous levels of total GPX1 protein.

Source/Purification: Polyclonal antibodies are produced by immunizing rabbits with a synthetic peptide (KLH-coupled) derived from the sequence of human GPX1. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) McClung, J.P. et al. (2004) *Proc. Natl. Acad. Sci. USA* 101, 8852–8857.
- (2) Hamanishi, T. et al. (2004) *Diabetes* 53, 2455–2460.
- (3) Drew, J.E. et al. (2005) *FEBS Lett.* 579, 6135–6139.
- (4) Winter, J.P. et al. (2003) *Coron. Artery Dis.* 14, 149–153.



Western blot analysis of extracts from 293 and THP1 cells, using GPX1 Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:25

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.