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GPX1 Antibody

Store at -20C
#3206

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 22	Source/Isotype: Rabbit	UniProt ID: #P07203	Entrez-Gene Id: 2876
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:25

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.

Specificity/Sensitivity

GPX1 Antibody detects endogenous levels of total GPX1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human GPX1. Antibodies are purified by protein A and peptide affinity chromatography.

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).

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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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