

Datasheet for ABIN129715
anti-GPX4 antibody (C-Term)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	GPX4
Binding Specificity:	C-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPX4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the of mouse GPx4 protein.
Isotype:	IgG
Cross-Reactivity:	Rat (Rattus), Guinea Pig
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	GPX4
Abstract:	GPX4 Products

Target Details

Background:	<p>This antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear Signaling research. Glutathione Peroxidase 4 (GPx4, also known as PHGPx) functions as an antioxidant and also plays a role in redox regulation, sexual maturation, inflammation, apoptosis, and differentiation. GPx4 was found to have an important role in preventing lipid peroxidation, and has been discussed primarily as the glutathione peroxidase protecting biomembranes against oxidative stress. GPx4 can react with free hydrogen peroxide as well as with a wide range of lipid hydroperoxides, including those derived from cholesterol and cholesteryl esters. GPx4 is the only GPx to use phospholipid hydroperoxides as substrates. It can also reduce thymine hydroperoxide. In contrast to GPx1 and GPx3, GPx4 can use a wide range of reducing substrates in addition to glutathione. GPx4 is expressed in high levels in testes, suggesting a role in male fertility. It has also been identified as an enzymatically inactive structural protein of the mitochondrial capsule of sperm.</p> <p>Synonyms: GPX4 antibody, MCSP antibody, PHGPx antibody, Phospholipid hydroperoxidase antibody, Phospholipid hydroperoxide glutathione peroxidase antibody</p>
Gene ID:	625249, 13508533
UniProt:	O70325

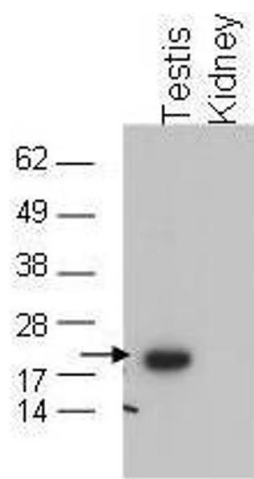
Application Details

Application Notes:	This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 19 kDa in size corresponding to GPx4 protein by western blotting in the appropriate cell lysate or extract.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Concentration:	1.15 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C



Western Blotting

Image 1. Western blot using affinity purified anti-GPx4 to detect GPx4 in testis extract (arrow). Tissue extract (40 µg) was electrophoresed and transferred to nitrocellulose. The membrane was probed with the primary antibody at a 1:1,000 dilution. Personal Communication, Dolph Hatfield, CCR-NCI, Bethesda, MD.