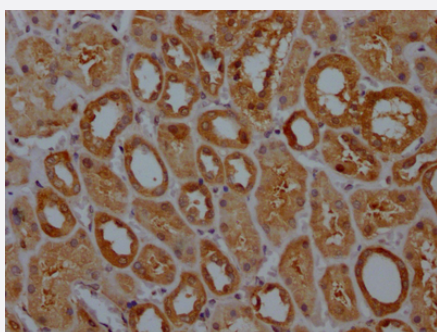


RecomAb™

GPX4 recombinant monoclonal antibody, clone 9D4

Catalog # RAB04102 Size 100 uL

Applications



Immunohistochemistry

Immunohistochemistry image of GPX4 recombinant monoclonal antibody, clone 9D4 diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica Bond™ system.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human GPX4.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to full length human GPX4.
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry

Immunohistochemistry image of GPX4 recombinant monoclonal antibody, clone 9D4 diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — GPX4

Entrez GeneID [2879](#)

Protein Accession# [P36969](#)

Gene Name GPX4

Gene Alias MCSP, PHGPx, snGPx, snPHGPx

Gene Description glutathione peroxidase 4 (phospholipid hydroperoxidase)

Omim ID [138322](#)

Gene Ontology [Hyperlink](#)

Gene Summary Glutathione peroxidase catalyzes the reduction of hydrogen peroxide, organic hydroperoxide, and lipid peroxides by reduced glutathione and functions in the protection of cells against oxidative damage. Human plasma glutathione peroxidase has been shown to be a selenium-containing enzyme and the UGA codon is translated into a selenocysteine. Through alternative splicing and transcription initiation, rat produces proteins that localize to the nucleus, mitochondrion, and cytoplasm. In humans, experimental evidence for alternative splicing exists; alternative transcription initiation and the cleavage sites of the mitochondrial and nuclear transit peptides need to be experimentally verified. [provided by RefSeq]

Other Designations glutathione peroxidase 4|phospholipid hydroperoxidase|phospholipid hydroperoxide glutathione peroxidase, mitochondrial|sperm nucleus glutathione peroxidase

Pathway

- [Arachidonic acid metabolism](#)

- [Glutathione metabolism](#)

Disease

- [Acute Disease](#)
- [Adenoma](#)
- [Alzheimer disease](#)
- [Asthma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hepatitis](#)
- [Hodgkin Disease](#)
- [Infertility](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Occupational Diseases](#)

- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)