RecomAb™

GPX4 recombinant monoclonal antibody, clone R03-6E6

Catalog # RAB02250 Size 100 uL

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human GPX4.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human GPX4.
Theoretical MW (kDa)	Calculated MW: 22 kD
Reactivity	Human, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence(1:50-1:200) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry

- Immunofluorescence

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 da mage. Human plasma glutathione peroxidase has been shown to be a selenium-containing enzy me and the UGA codon is translated into a selenocysteine. Through alternative splicing and trans cription 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 p eroxidase, 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