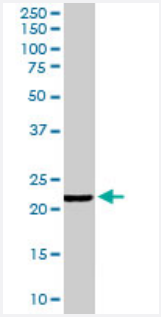
GPX2 polyclonal antibody

Catalog # PAB6817 Size 100 ug

Applications



Western Blot (Tissue lysate)

GPX2 polyclonal antibody (Cat # PAB6817) staining (1 ug/mL) of human prostate lysate (RIPA buffer, 30 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of GPX2.
Immunogen	A synthetic peptide corresponding to human GPX2.
Sequence	C-SLDGEKVDFN
Host	Goat
Theoretical MW (kDa)	21.9
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:4000) Western Blot (1-3 ug/mL) The optimal working dilution should be determined by the end user.

Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
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

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — GPX2

Entrez GeneID	2877
Protein Accession#	NP_002074.2
Gene Name	GPX2
Gene Alias	GI-GPx, GPRP, GSHPX-GI, GSHPx-2
Gene Description	glutathione peroxidase 2 (gastrointestinal)
Omim ID	138319
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the glutathione peroxidase family and encodes a selenium-dependent glutathione peroxidase that is one of two isoenzymes responsible for the majority of the glutathion e-dependent hydrogen peroxide-reducing activity in the epithelium of the gastrointestinal tract. Stu dies in knockout mice indicate that mRNA expression levels respond to luminal microflora, sugge sting a role of the ileal glutathione peroxidases in preventing inflammation in the GI tract. [provided by RefSeq
Other Designations	gastrointestinal glutathione peroxidase 2|glutathione peroxidase 2|glutathione peroxidase-related protein 2

Publication Reference

- Nrf2 increases survival and attenuates alveolar growth inhibition in neonatal mice exposed to hyperoxia.

  McGrath-Morrow S, Lauer T, Yee M, Neptune E, Podowski M, Thimmulappa RK, O'Reilly M, Biswal S.

  American Journal of Physiology. Lung Cellular and Molecular Physiology 2009 Jan; 296(4):L565.

Pathway

- Arachidonic acid metabolism
- Glutathione metabolism

Disease

- Adenocarcinoma
- Adenoma
- Barrett Esophagus
- Cardiovascular Diseases
- Colorectal Neoplasms
- Diabetes Mellitus
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hodgkin Disease
- Lung Neoplasms
- Lymphoma
- Lymphoproliferative Disorders
- Occupational Diseases
- Ovarian cancer
- Pulmonary Disease

- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome