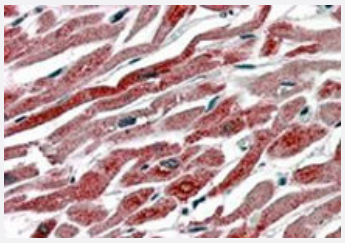
PTGS1 polyclonal antibody

Catalog # PAB6095 Size 100 ug

Applications

Western Blot (Cell lysate)

PTGS1 polyclonal antibody (Cat # PAB6095) staining (1 ug/mL) of U937 cell lysate (35 ug protein in RIPA buffer). Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

PTGS1 polyclonal antibody (Cat # PAB6095) (3.8 ug/mL) staining of paraffin embedded human heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of PTGS1.
Immunogen	A synthetic peptide corresponding to human PTGS1.
Sequence	C-QDDGPAVERPSTEL
Host	Goat
Theoretical MW (kDa)	68.7, 64.5
Reactivity	Human

Specificity	This antibody is expected to recognize both human isoforms of this protein according to NP_000953 .2 and NP_542158.1.
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:32000) Immunohistochemistry (3-5 ug/mL) Western blot (0.3-1 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

- Western Blot (Cell lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PTGS1

Entrez GeneID	5742
Protein Accession#	NP_000953.2;NP_542158.1
Gene Name	PTGS1
Gene Alias	COX1, COX3, PCOX1, PGG/HS, PGHS-1, PGHS1, PHS1, PTGHS

Gene Description	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)
Omim ID	176805
Gene Ontology	Hyperlink
Gene Summary	Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes PTGS1, which regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. PTGS1 is thought to be involved in cell-cell signaling and maintaining tissue homeostasis. Alternative splicing of this gene generates two transcript variants. The expression of these two transcripts is differentially regulated by relevant cytokines and growth factors. [provided by RefSeq
Other Designations	OTTHUMP00000022052|OTTHUMP00000022053|prostaglandin G/H synthase and cyclooxygenase|prostaglandin-endoperoxide synthase 1

Publication Reference

- Cloning of human gene encoding prostaglandin endoperoxide synthase and primary structure of the enzyme.

  Yokoyama C, Tanabe T.

  Biochemical and Biophysical Research Communications 1989 Dec; 165(2):888.

Pathway

- Arachidonic acid metabolism
- Metabolic pathways

Disease

- Abdominal Pain
- Adenocarcinoma
- Adenoma
- Adenomatous Polyps
- Alzheimer disease
- Asthma

- Atherosclerosis
- Atrophy
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Cardiovascular Diseases
- Cerebrovascular Accident
- Chorioamnionitis
- Chronic Disease
- Colitis
- Colonic Polyps
- Colorectal Neoplasms
- Connective Tissue Diseases
- Coronary Artery Disease
- Coronary Disease
- Diabetes Complications
- Diabetes Mellitus
- Ductus Arteriosus
- Duodenal Ulcer
- Dyspepsia
- Edema
- Esophageal Neoplasms
- Fetal Diseases
- Fetal Membranes

- Genetic Predisposition to Disease
- Helicobacter Infections
- Hypertension
- Hypertrophy
- Infant
- Infection
- Inflammation
- Kidney Diseases
- Kidney Failure
- Lung Neoplasms
- Lymphoma
- Metabolic Syndrome X
- Musculoskeletal Diseases
- Myocardial Infarction
- Neoplasms
- Obstetric Labor
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Pain
- Peptic Ulcer
- Peptic Ulcer Hemorrhage
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth

- Pulmonary Disease
- Recurrence
- Renal Insufficiency
- Schizophrenia
- Skin Diseases
- Stomach Neoplasms
- Stomach Ulcer
- Stroke
- Urinary Bladder Neoplasms
- Vascular Diseases
- Werner syndrome