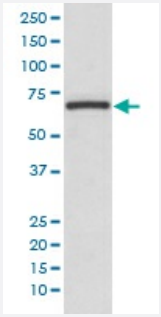
PTGS1 monoclonal antibody, clone FHF-16

Catalog # MAB19915 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of A431 cell lysate with PTGS1 monoclonal antibody.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human PTGS1.
Immunogen	A synthetic peptide corresponding to human PTGS1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Flow Cytometry (1:50) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

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Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. 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

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunofluorescence
- Immunocytochemistry
- Flow Cytometry
- Immunoprecipitation
- Western Blot (Cell lysate)

  Western blot analysis of A431 cell lysate with PTGS1 monoclonal antibody.

Gene Info — PTGS1

Entrez GeneID	5742
Protein Accession#	P23219
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

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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

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

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- 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

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- 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

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- Urinary Bladder Neoplasms
- Vascular Diseases
- Werner syndrome

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