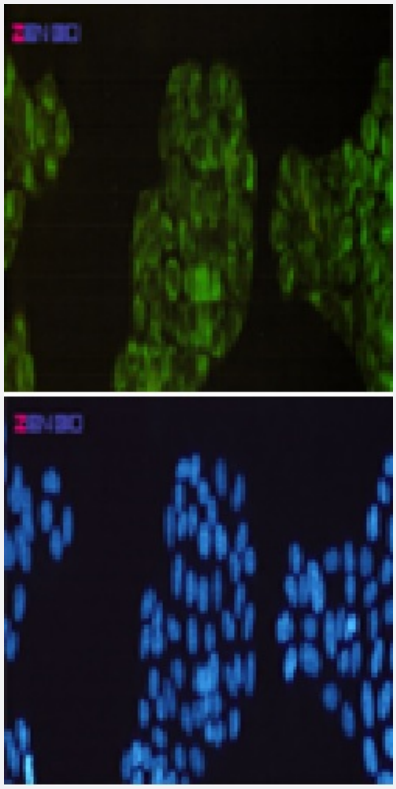
RecomAb™

PTGS1 recombinant monoclonal antibody, clone R02-6G4

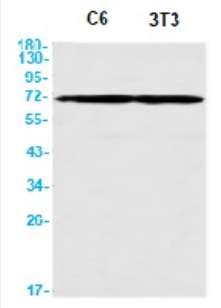
Catalog # RAB01494 Size 100 uL

Applications



Immunocytochemistry

Immunocytochemistry analysis of COX1/Cyclooxygenase 1(green) in Hela using human COX1/Cyclooxygenase 1 recombinant monoclonal antibody, clone R02-6G4 (Cat # RAB01494), and DAPI(blue).



Western Blot

Western blot analysis of COX1/Cyclooxygenase 1 in C6, 3t3 lysates using human COX1/Cyclooxygenase 1 recombinant monoclonal antibody, clone R02-6G4 (Cat # RAB01494).

Specification

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Product Description	Rabbit recombinant monoclonal antibody raised against synthetic peptide of human COX1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human COX1
Theoretical MW (kDa)	Calculated MW: 69 kD
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (CHO) expression system
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1/100) Immunoprecipitation (1:20) 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 4°C for short term. For long term storage 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

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

  Immunocytochemistry analysis of COX1/Cyclooxygenase 1(green) in Hela using human COX1/Cyclooxygenase 1 recombinant monoclonal antibody, clone R02-6G4 (Cat # RAB01494), and DAPI(blue).
- Immunoprecipitation

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- Western Blot

  Western blot analysis of COX1/Cyclooxygenase 1 in C6, 3t3 lysates using human COX1/Cyclooxygenase 1 recombinant monoclonal antibody, clone R02-6G4 (Cat # RAB01494).

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
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 tw o isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulatio n 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. PTG S1 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 cyclooxygen ase|prostaglandin-endoperoxide synthase 1

Pathway

- Arachidonic acid metabolism
- Metabolic pathways

Disease

- Abdominal Pain
- Adenocarcinoma

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- 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

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- 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

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- 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

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