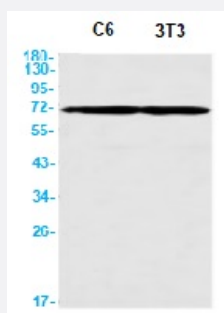


RecomAb™

PTGS1 recombinant monoclonal antibody, clone R02-6G4

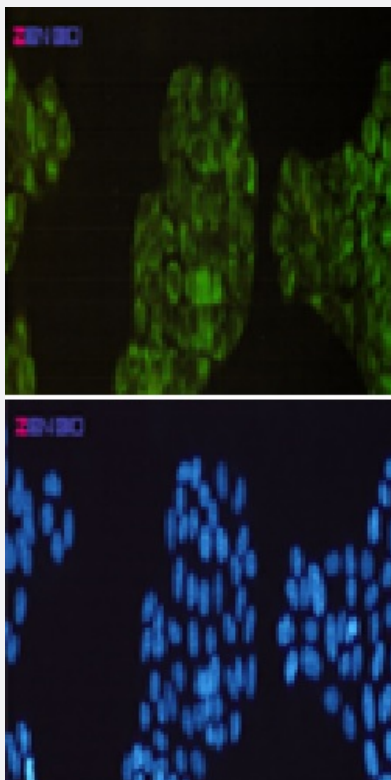
Catalog # RAB01494 Size 100 uL

Applications



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).



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).

Specification

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
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 should be handled by trained staff only.

Applications

- 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).

- 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

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 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](#)
- [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](#)