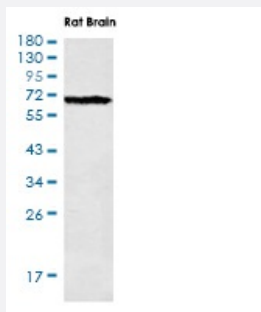


RecomAb™

# PTGS2 recombinant monoclonal antibody, clone R04-3I1

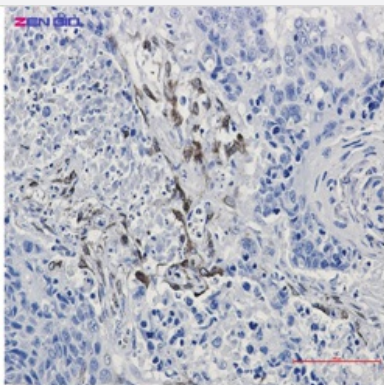
Catalog # RAB01282      Size 100 uL

## Applications



### Western Blot

Western blot analysis of COX2/cyclooxygenase2 in rat Brain lysates using Cyclooxygenase 2 antibody.



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

Immunohistochemistry analysis of paraffin-embedded Human lung cancer using COX2 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

## Specification

|                      |                                                                                      |
|----------------------|--------------------------------------------------------------------------------------|
| Product Description  | Rabbit recombinant monoclonal antibody raised against human PTGS2.                   |
| Antibody Species     | Rabbit                                                                               |
| Immunogen            | Original antibody is raised against recombinant protein corresponding to human COX2. |
| Theoretical MW (kDa) | Calculated MW: 69 kD                                                                 |
| Reactivity           | Human                                                                                |

|                     |                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form                | Liquid                                                                                                                                                     |
| Purification        | Affinity purification                                                                                                                                      |
| Isotype             | IgG                                                                                                                                                        |
| Recommend Usage     | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)<br>Western Blot<br>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 longer storage, aliquot and store at -20°C.<br>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

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## Gene Info — PTGS2

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">5743</a>                                                                  |
| Protein Accession# | <a href="#">P35354</a>                                                                |
| Gene Name          | PTGS2                                                                                 |
| Gene Alias         | COX-2, COX2, GRIPGHS, PGG/HS, PGHS-2, PHS-2, hCox-2                                   |
| Gene Description   | prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) |
| Omim ID            | <a href="#">600262</a>                                                                |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                             |

**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 isoforms of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes the inducible isoform. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis. [provided by RefSeq]

**Other Designations**

OTTHUMP00000033524|cyclooxygenase 2b|prostaglandin G/H synthase and cyclooxygenase|prostaglandin-endoperoxide synthase 2

**Pathway**

- [Arachidonic acid metabolism](#)
- [Pathways in cancer](#)
- [Small cell lung cancer](#)
- [VEGF signaling pathway](#)

**Disease**

- [Acute Disease](#)
- [Acute-Phase Reaction](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)
- [Adenomatous Polyps](#)
- [Aggressive Periodontitis](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Angina Pectoris](#)
- [Anoxia](#)
- [Aortic Aneurysm](#)
- [Arteriosclerosis](#)

- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)
- [Atrophy](#)
- [Autistic Disorder](#)
- [Barrett Esophagus](#)
- [Biliary Tract Neoplasms](#)
- [Birth Weight](#)
- [Brain Ischemia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Carotid Stenosis](#)
- [Cerebral Palsy](#)
- [Cerebrovascular Accident](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Chronic Periodontitis](#)
- [Cognition](#)

- [Colitis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Crohn Disease](#)
- [Death](#)
- [Depressive Disorder](#)
- [Developmental Disabilities](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Digestive System Neoplasms](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [Drug Hypersensitivity](#)
- [Ductus Arteriosus](#)
- [Duodenal Neoplasms](#)
- [Dyslipidemias](#)
- [Dyspepsia](#)
- [Edema](#)
- [Endometriosis](#)
- [Eosinophilia](#)
- [Esophageal Neoplasms](#)

- [Esophagitis](#)
- [Fetal Diseases](#)
- [Fetal Growth Retardation](#)
- [Fetal Membranes](#)
- [Gallbladder Neoplasms](#)
- [Gallstones](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Head and Neck Neoplasms](#)
- [Hearing Loss](#)
- [Helicobacter Infections](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hodgkin Disease](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Infant](#)
- [Infection](#)
- [Infertility](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Leukoplakia](#)

- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Melanoma](#)
- [Metabolic Syndrome X](#)
- [Metaplasia](#)
- [Motor Skills](#)
- [Mouth Neoplasms](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Musculoskeletal Diseases](#)
- [Myocardial Infarction](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Oligohydramnios](#)
- [Oral Submucous Fibrosis](#)
- [Osteoarthritis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pain](#)
- [Pancreatic cancer](#)

- [Pancreatic Neoplasms](#)
- [Pancreatitis](#)
- [Parkinson disease](#)
- [Peptic Ulcer](#)
- [Periodontitis](#)
- [Pharyngeal Neoplasms](#)
- [Placenta Diseases](#)
- [Postoperative Complications](#)
- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Pulmonary Fibrosis](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Recurrence](#)
- [Renal Insufficiency](#)
- [Respiratory Syncytial Virus Infections](#)
- [Sarcoidosis](#)
- [Schizophrenia](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)



- [Stroke](#)
- [Thrombosis](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Uterine Diseases](#)
- [Vitiligo](#)
- [Werner syndrome](#)