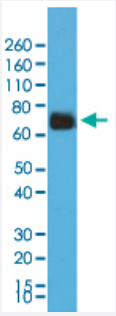
RecomAb™

# PTGS2 monoclonal antibody, clone RM348

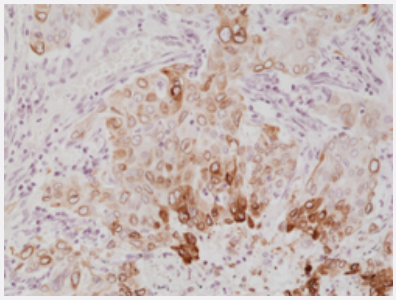
Catalog # MAB21985 Size 100 uL

## Applications




### Western Blot (Cell lysate)

Western Blot (Cell lysate) analysis of HeLa cell lysate.



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

Immunohistochemical staining of human lung cancer.

## Specification

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| **Product Description** | Rabbit recombinant monoclonal antibody raised against human PTGS2. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic peptide corresponding to C-terminus of human PTGS 2. |
| **Reactivity** | Human |
| **Specificity** | This antibody reacts to human COX-2 (Cyclooxygenase-2) (Prostaglandin G/H synthase 2). |
| **Form** | Liquid |

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| **Purification** | Protein A purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1000)<br>Western Blot (1:1000-20000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (50% glycerol, 1% BSA, 0.09% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>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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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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## Gene Info — PTGS2

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| **Entrez GeneID** | 5743 |
| **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** | 600262 |
| **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 the inducible isozyme. It is regulated b y specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis invol ved in inflammation and mitogenesis. [provided by RefSeq |

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| **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