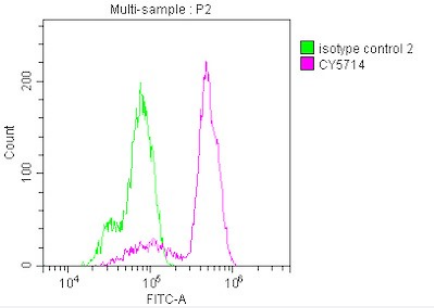
RecomAb™ Sm Size

PTGS1 recombinant monoclonal antibody, clone 6B6

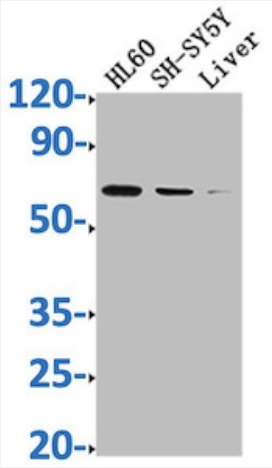
Catalog # RAB07981 Size 50 uL

Applications



Flow Cytometry

Overlay histogram showing Hela cells stained with AGTR2 recombinant monoclonal antibody, clone 6C7 (red line) at 1:50.



Western Blot

Western Blot analysis of
Lane 1: HL60 whole cell lysate;
Lane 2: SH-SY5Y whole cell lysate;
Lane 3: Mouse liver tissue.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human and mouse PTGS1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to full length human PTGS1.
Theoretical MW (kDa)	Calculated MW: 69, 6

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Reactivity	Human, Mouse
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity-chromatography
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry (1:20-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	store at -20 °C or -80 °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

- Flow Cytometry

  Overlay histogram showing Hela cells stained with AGTR2 recombinant monoclonal antibody, clone 6C7 (red line) at 1:50.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western Blot analysis of
  Lane 1: HL60 whole cell lysate;
  Lane 2: SH-SY5Y whole cell lysate;
  Lane 3: Mouse liver tissue.

Gene Info — PTGS1

Entrez GeneID	5742
Protein Accession#	P23219
Gene Name	PTGS1
Gene Alias	COX1, COX3, PCOX1, PGG/HS, PGHS-1, PGHS1, PHS1, PTGHS

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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
- Adenoma
- Adenomatous Polyps
- Alzheimer disease
- Asthma
- Atherosclerosis
- Atrophy
- Brain Ischemia
- Breast cancer
- Breast Neoplasms

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- 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

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- 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

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- Stomach Neoplasms
- Stomach Ulcer
- Stroke
- Urinary Bladder Neoplasms
- Vascular Diseases
- Werner syndrome

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