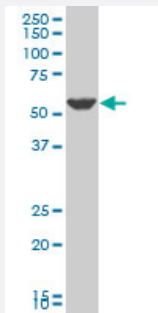


PTGIS polyclonal antibody (A01)

Catalog # H00005740-A01

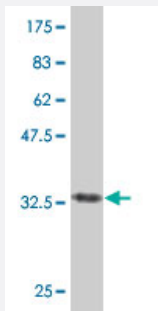
Size 50 uL

Applications



Western Blot (Cell lysate)

PTGIS polyclonal antibody (A01), Lot # 050921JC01 Western Blot analysis of PTGIS expression in NIH/3T3 (Cat # L018V1).



Western Blot detection against Immunogen (38.21 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant PTGIS.
Immunogen	PTGIS (NP_000952, 391 a.a. ~ 500 a.a) partial recombinant protein with GST tag.
Sequence	PQRDPEITYDPEVFKYNRFLNPDGSEKKDFYKDGKRLKNYNMPWGAGHNNHCLGRSYAVNSIKQF VFLVLVHLDLELINADVEIPEFDLSRYGFGLMQPEHDVPVRYRIRP
Host	Mouse
Reactivity	Human, Mouse
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (38.21 KDa) .

Storage Buffer 50 % glycerol

Storage Instruction Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

PTGIS polyclonal antibody (A01), Lot # 050921JC01 Western Blot analysis of PTGIS expression in NIH/3T3 (Cat # L018V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — PTGIS

Entrez GeneID [5740](#)

GeneBank Accession# [NM_000961](#)

Protein Accession# [NP_000952](#)

Gene Name PTGIS

Gene Alias CYP8, CYP8A1, MGC126858, MGC126860, PGIS, PTGI

Gene Description prostaglandin I2 (prostacyclin) synthase

Omim ID [145500](#) [601699](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. However, this protein is considered a member of the cytochrome P450 superfamily on the basis of sequence similarity rather than functional similarity. This endoplasmic reticulum membrane protein catalyzes the conversion of prostaglandin H2 to prostacyclin (prostaglandin I2), a potent vasodilator and inhibitor of platelet aggregation. An imbalance of prostacyclin and its physiological antagonist thromboxane A2 contribute to the development of myocardial infarction, stroke, and atherosclerosis. [provided by RefSeq]

Other Designations OTTHUMP00000031777|cytochrome P450, family 8, subfamily A, polypeptide 1

Publication Reference

- [Reduced prostaglandin I2 signaling in Arid5b-/- primary skeletal muscle cells attenuates myogenesis.](#)

Murray J, Whitson RH, Itakura K.

FASEB Journal 2018 Apr; 32(4):1868.

Application: WB, Mouse, Mouse primary skeletal muscle satellite cells

- [Mechanism of prostacyclin-induced potentiation of glucose-induced insulin secretion.](#)

Gurgul-Convey E, Hanzelka K, Lenzen S.

Endocrinology 2012 Jun; 153(6):2612.

Application: IF, WB, Rat, INS1E cells, Rat islet cells, Rat islets

Pathway

- [Arachidonic acid metabolism](#)
- [Metabolic pathways](#)

Disease

- [Adenocarcinoma](#)
- [Adenomatous Polyps](#)
- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Cerebral Infarction](#)
- [Chronic Disease](#)
- [Colon cancer](#)

- [Colorectal Neoplasms](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Ductus Arteriosus](#)
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- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
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- [Respiratory Syncytial Virus Infections](#)
- [Respiratory Tract Infections](#)
- [Stroke](#)
- [Werner syndrome](#)