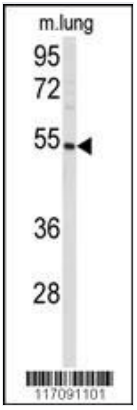
Prostacyclin Synthase (PTGIS) Antibody – Rabbit Polyclonal

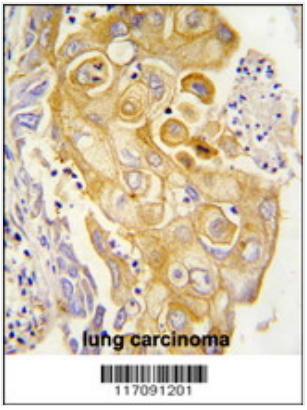
PRODUCT OVERVIEW

Product Name	Prostacyclin Synthase (PTGIS), Polyclonal Antibody
Full Product Name	Prostacyclin Synthase, NT (Prostaglandin I2 Synthase, CYP8A1, PTGIS, CYP8, CYP8A1)
Product Gene Name	anti-PTGIS antibody
Product Synonym Names	Anti -Prostacyclin Synthase, NT (Prostaglandin I2 Synthase, CYP8A1, PTGIS, CYP8, CYP8A1)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, 0.09% sodium azide.
Purity/Purification	Purified Purified by ammonium sulfate precipitation.
Specificity	Recognizes human CYP8A1. Species Crossreactivity: mouse.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	57,104 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (48120411..48184707, complement). Location: 20q13.13
OMIM	601699
3D Structure	ModBase 3D Structure for Q16647
Immunogen	Synthetic peptide selected from the N-terminal region of human CYP8A1 (KLH).
Product Categories/Family for anti-PTGIS antibody	Antibodies; Abs to Prostaglandins
Applications Tested/Suitable for anti-PTGIS antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PTGIS antibody	Suitable for use in ELISA, Western Blot, and Immunohistochemistry. Dilution: ELISA: 1:1,000 Western Blot: 1:50-1:100 Immunohistochemistry: 1:10-1:50
Related Product Information for anti-PTGIS antibody	CYP8A1 is 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 prostglandin 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.
Other Notes	Small volumes of anti-PTGIS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for PTGIS purchase	MBS626845 is an antibody targeting PTGIS. Also known as Prostacyclin Synthase, NT (Prostaglandin I2 Synthase, CYP8A1, PTGIS, CYP8, CYP8A1). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-PTGIS antibody
Western blot analysis of anti-CYP8A1 Antibody (N-term) in mouse lung tissue lysates (35ug/lane). CYP8A1(arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-PTGIS antibody
Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with CYP8A1 antibody (N-term) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTGIS. It may not necessarily be applicable to this product.

NCBI GI #	13699859
NCBI GeneID	5740
NCBI Accession #	NP_000952.1
UniProt Primary Accession #	Q16647
UniProt Secondary Accession #	Q3MII8; Q9HAX2; Q9HAX3; Q9HAX4
UniProt Related Accession #	Q16647; Q6LEN0; Q6LEN2
GenBank Nucleotide #	NM_000961.3
NCBI Official Full Name	prostacyclin synthase
NCBI Official Synonym Full Names	prostaglandin I2 (prostacyclin) synthase
NCBI Official Symbol	PTGIS
NCBI Official Synonym Symbols	CYP8; PGIS; PTGI; CYP8A1; MGC126858; MGC126860
UniProt Protein Name	Prostacyclin synthase
UniProt Synonym Protein Names	Prostaglandin I2 synthase
Protein Family	Prostacyclin synthase
UniProt Gene Name	PTGIS
UniProt Synonym Gene Names	CYP8; CYP8A1
UniProt Entry Name	PTGIS_HUMAN
NCBI Protein Information	prostacyclin synthase; OTTHUMP00000031777; prostaglandin I2 synthase; cytochrome P450, family 8, subfamily A, polypeptide 1

NCBI Summary for PTGIS	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 prostglandin 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]
UniProt Comments for PTGIS	PTGIS: Catalyzes the isomerization of prostaglandin H2 to prostacyclin (= prostaglandin I2). Belongs to the cytochrome P450 family. Protein type: Isomerase; Endoplasmic reticulum; EC 5.3.99.4; Lipid Metabolism - arachidonic acid; Membrane protein, integral Chromosomal Location of Human Ortholog: 20q13.13 Cellular Component: extracellular space; endoplasmic reticulum membrane; endoplasmic reticulum; integral to membrane; caveola; nucleus Molecular Function: protein binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; iron ion binding; heme binding; prostaglandin-I synthase activity; monooxygenase activity Biological Process: vitamin metabolic process; negative regulation of nitric oxide biosynthetic process; icosanoid metabolic process; cyclooxygenase pathway; prostaglandin biosynthetic process; positive regulation of angiogenesis; NAD metabolic process; inhibition of NF-kappaB transcription factor; nicotinamide metabolic process; xenobiotic metabolic process; negative regulation of inflammatory response; arachidonic acid metabolic process; water-soluble vitamin metabolic process Disease: Hypertension, Essential
Research Articles on PTGIS	**1.** diabetes preferentially increases PGIS nitration that is associated with excessive vascular inflammation in atherosclerotic carotid arteries from patients with type 2 diabetes
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