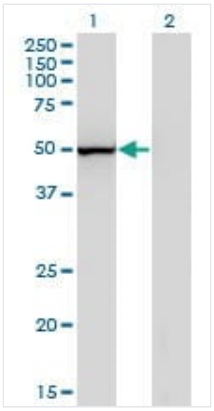
PTGIS Antibody – Mouse Monoclonal

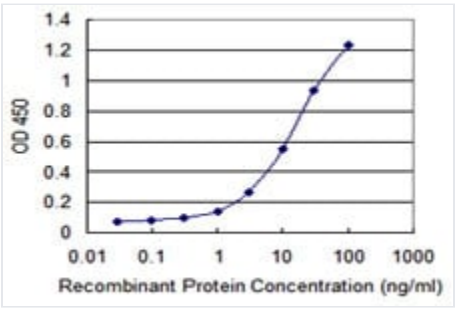
PRODUCT OVERVIEW

Product Name	PTGIS, Monoclonal Antibody
Full Product Name	PTGIS (Prostacyclin Synthase, Prostaglandin I2 Synthase, CYP8, CYP8A1, MGC126858, MGC126860) APC
Product Gene Name	anti-PTGIS antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3B11
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified
Specificity	Recognizes human PTGIS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, cen original vial prior to removing the cap.
Molecular Weight	57kDa
OMIM	601699
3D Structure	ModBase 3D Structure for Q16647
Immunogen	Partial recombinant protein corresponding to aa391-501, from human PTGIS (NP_000952) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	PQRDPEIYTDPEVFKYNRFLNPDGSEKKDFYKDGKRLKNYNMPWGAGHNHCLGRSYAVNSIKQFVFLVLVHLDLELINADVEIPEFDLSRYGFGLMQPEH
Conjugate	APC
Product Categories/Family for anti-PTGIS antibody	Antibodies; Prostaglandins
Applications Tested/Suitable for anti-PTGIS antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-PTGIS antibody	Applications are based on unconjugated antibody.

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 rea in drug metabolism and synthesis of cholesterol, steroids and other lipids. However, this protein is considered a member of the cytochrome P450 super basis of sequence similarity rather than functional similarity. This endoplasmic reticulum membrane protein catalyzes the conversion of prostglandin H2 prostacyclin (prostaglandin I2), a potent vasodilator and inhibitor of platelet aggregation. An imbalance of prostacyclin and its physiological antagonist th 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 necess 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 may apply.
Searchable Terms for PTGIS purchase	MBS6138511 is an antibody targeting PTGIS. Also known as PTGIS (Prostacyclin Synthase, Prostaglandin I2 Synthase, CYP8, CYP8A1, MGC126858 MGC126860) APC. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-PTGIS antibody
Western Blot analysis of PTGIS expression in transfected 293T cell lineusing 132033. Lane 1: PTGIS transfected lysate (Predicted MW: 57.1kD. Lane 2: Non-transfected lysate.



Testing Data of anti-PTGIS antibody
Detection limit for recombinant GST tagged PTGIS is 0.3ng/ml as a capture antibody.

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
UniProt Primary Accession #	Q16647
UniProt Related Accession #	Q16647
GenBank Nucleotide #	NM_000961
NCBI Official Full Name	prostacyclin synthase
NCBI Official Synonym Full Names	prostaglandin I2 synthase
NCBI Official Symbol	PTGIS
NCBI Official Synonym Symbols	CYP8; PGIS; PTGI; CYP8A1
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
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, Jul 2008]
UniProt Comments for PTGIS	PTGIS: Catalyzes the isomerization of prostaglandin H2 to prostacyclin (= prostaglandin I2). Belongs to the cytochrome P450 family. Protein type: EC 5.3.99.4; Endoplasmic reticulum; Isomerase; Membrane protein, integral; Lipid Metabolism - arachidonic acid 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; prostaglandin-I synthase activity; heme binding; 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; nicotinamide metabolic process; inhibition of NF-kappaB transcription factor; NAD 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.** In examining the tumor suppressor PTGIS as a potential biomarker for treatment with either 5-Aza-dC or TSA, 5-Aza-dC effectively stabilized cell cycling, restricted genetic instability and derepressed PTGIS expression
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