G-Biosciences Image not found or type unknown

Immunotag™ PGI2 synthase Polyclonal Antibody

Antibody Specification

Catalog No.	ITT3690
Product Description	Immunotag™ PGI2 synthase Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PGI2 synthase
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from the C-terminal region of human PGI2 synthase
Specificity	PGI2 synthase Polyclonal Antibody detects endogenous levels of PGI2 synthase protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	PTGIS
Accession No.	Q16647 O35074 Q62969
Alternate Names	PTGIS; CYP8; CYP8A1; Prostacyclin synthase; Prostaglandin I2 synthase

Antibody Specification

Description	prostaglandin I2 synthase(PTGIS) Homo sapiens 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],
Cell Pathway/ Category	Arachidonic acid metabolism,
Protein Expression	Aorta,Brain,
Subcellular Localization	extracellular space,nucleus,endoplasmic reticulum,endoplasmic reticulum membrane,caveola,integral component of membrane,
Protein Function	catalytic activity:(5Z,13E)-(15S)-9-alpha,11-alpha-epidioxy-15-hydroxyprosta-5,13-dienoate = (5Z,13E)-(15S)-6,9-alpha-epoxy-11-alpha,15-dihydroxyprosta-5,13-dienoate.,cofactor:Heme group.,function:Catalyzes the isomerization of prostaglandin H2 to prostacyclin (= prostaglandin I2).,online information:CYP8A1 alleles,similarity:Belongs to the cytochrome P450 family.,tissue specificity:Widely expressed; particularly abundant in ovary, heart, skeletal muscle, lung and prostate.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.