

Rabbit PTGIS/PGIS Polyclonal Antibody | anti-PTGIS antibody

Anti-PTGIS/PGIS Antibody Picoband

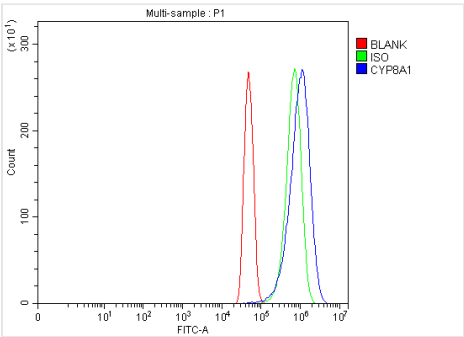
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126407	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

PTGIS/PGIS; Polyclonal Antibody; Anti-PTGIS/PGIS Antibody Picoband; anti-PTGIS antibody

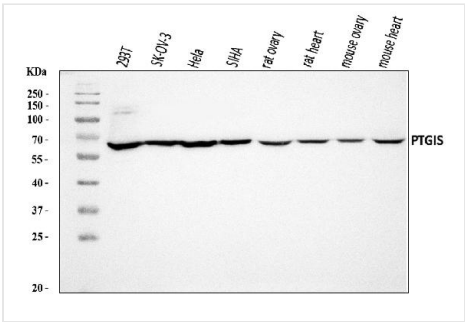
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-PTGIS antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human PTGIS/PGIS recombinant protein (Position: D119-D470).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U251 cells using anti-PTGIS/PGIS antibody (AAA126407). Overlay histogram showing U251 cells stained with AAA126407 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PTGIS/PGIS Antibody (AAA126407, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of PTGIS/PGIS using anti-PTGIS/PGIS antibody (AAA126407). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human SK-OV-3 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human SiHa whole cell lysates, Lane 5: rat ovary tissue lysates, Lane 6: rat heart tissue lysates, Lane 7: mouse ovary tissue lysates, Lane 8: mouse heart tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PTGIS/PGIS antigen affinity purified polyclonal antibody (#AAA126407) at 0.25 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PTGIS/PGIS at approximately 57 kDa. The expected band size for PTGIS/PGIS is at 57 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PTGIS antibody	Prostaglandin-I synthase (EC 5.3.99.4) also known as prostaglandin I2 (prostaglandin synthase (PTGIS) or CYP8A1 is an enzyme involved in prostanoid biosynthesis that in humans is encoded by the PTGIS gene. 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.
Product Categories/Family for anti-PTGIS antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	13699859
NCBI GeneID	5740
NCBI Accession #	NP_000952.1
NCBI GenBank Nucleotide #	NM_000961.3
UniProt Accession #	Q16647; Q3MII8; Q9HAX2; Q9HAX3; Q9HAX4
Molecular Weight	57,104 Da
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

NCBI Protein Information	prostacyclin synthase; prostaglandin I2 synthase; cytochrome P450, family 8, subfamily A, polypeptide 1
UniProt Protein Name	Prostacyclin synthase
UniProt Gene Name	PTGIS
UniProt Synonym Gene Names	CYP8; CYP8A1
UniProt Entry Name	PTGIS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ptgis-pgis-antibody-flow-cytometry-western-blot-elisa/126407>