

Rabbit anti-Human PTGR1 Polyclonal Antibody | anti-PTGR1 antibody

Anti-PTGR1 Antibody Picoband

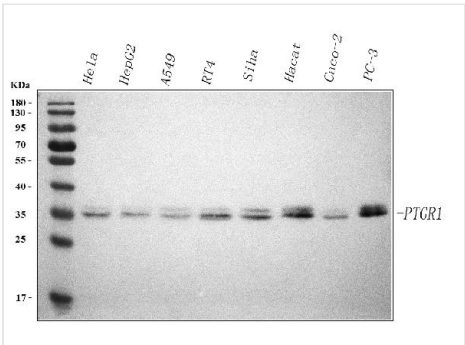
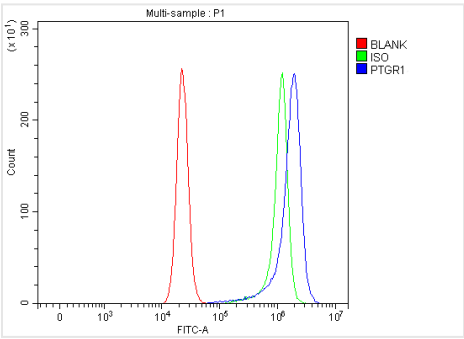
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127533	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

PTGR1; Polyclonal Antibody; Anti-PTGR1 Antibody Picoband; Gap junction gamma-1 protein; Connexin-45; Cx45; Gap junction alpha-7 protein; GJC1; GJA7; anti-PTGR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitously expressed.
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 .
Applicable Applications for anti-PTGR1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PTGR1 recombinant protein (Position: T8-A329).
Subcellular Localization	Cell membrane, Multi-pass membrane protein, Cell junction, gap junction
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Protein Function	One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell.
Preparation and Storage	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 RT4 cells using anti-PTGR1 antibody (AAA127533). Overlay histogram showing RT4 cells stained with AAA127533 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PTGR1 Antibody (AAA127533, 1ug/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 (1ug/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 PTGR1 using anti-PTGR1 antibody (AAA127533). 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 HeLa whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human RT4 whole cell lysates, Lane 5: human SiHa whole cell lysates, Lane 6: human Hacat whole cell lysates, Lane 7: human Caco-2 whole cell lysates, Lane 8: human PC-3 whole cell 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-PTGR1 antigen affinity purified polyclonal antibody (#AAA127533) at 0.5ug/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 PTGR1 at approximately 36 kDa. The expected band size for PTGR1 is at 36 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PTGR1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PTGR1 antibody	Primary Antibodies; Cell Adhesion; Cytoskeleton/ECM; Signal Transduction
References	1. Boll, W., Schmid-Chanda, T., Semenza, G., Mantei, N. Messenger RNAs expressed in intestine of adult but not baby rabbits: isolation of cognate cDNAs and characterization of a novel brush border protein with esterase and phospholipase activity. J. Biol. Chem. 268: 12901-12911, 1993.2. Gross, M. B. Personal Communication. Baltimore, Md. 3/26/2014.3. Yokomizo, T., Izumi, T., Takahashi, T., Kasama, T., Kobayashi, Y., Sato, F., Taketani, Y., Shimizu, T. Enzymatic inactivation of leukotriene B4 by a novel enzyme found in the porcine kidney: purification and properties of leukotriene B4 12-hydroxydehydrogenase. J. Biol. Chem. 268: 18128-18135, 1993.

NCBI AND UNIPROT INFORMATION

NCBI GI #	226059159
NCBI GeneID	22949
NCBI Accession #	NP_001139580.1
NCBI GenBank Nucleotide #	NM_001146108.1
UniProt Accession #	Q14914; Q8IYQ0; Q9H1X6; A8K0N2; B4DPK3; F5GY50
Molecular Weight	35,870 Da
NCBI Official Full Name	prostaglandin reductase 1 isoform 1
NCBI Official Synonym Full Names	prostaglandin reductase 1
NCBI Official Symbol	PTGR1

NCBI Official Synonym Symbols	PGR1; ZADH3; LTB4DH
NCBI Protein Information	prostaglandin reductase 1; PRG-1; 15-oxoprostaglandin 13-reductase; leukotriene B4 12-hydroxydehydrogenase; NADP-dependent leukotriene B4 12-hydroxydehydrogenase; zinc binding alcohol dehydrogenase domain containing 3
UniProt Protein Name	Prostaglandin reductase 1
UniProt Gene Name	PTGR1
UniProt Synonym Gene Names	LTB4DH; PRG-1
UniProt Entry Name	PTGR1_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/ptgr1-antibody-flow-cytometry-western-blot-elisa/127533>