

Rabbit anti-Human PTGR2 Polyclonal Antibody | anti-PTGR2 antibody

Anti-PTGR2 Antibody Picoband

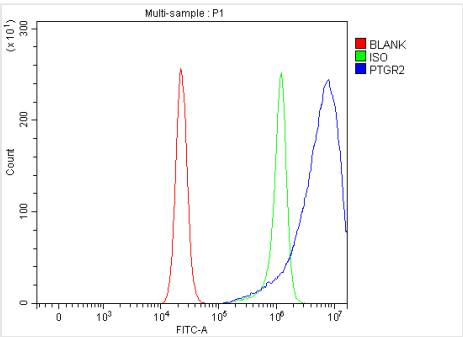
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127630	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

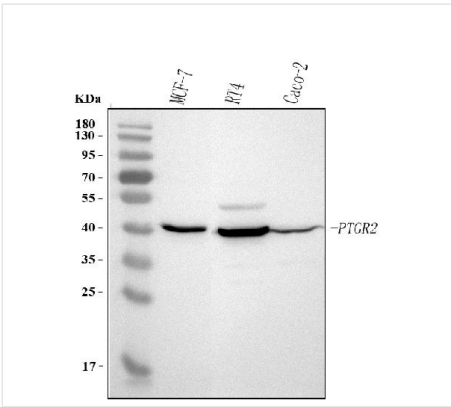
PTGR2; Polyclonal Antibody; Anti-PTGR2 Antibody Picoband; Protein NDRG3; N-myc downstream-regulated gene 3 protein; NDRG3; anti-PTGR2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous.Highly expressed in brain.
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-PTGR2 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PTGR2 recombinant protein (Position: E26-Q305).
Subcellular Localization	Membrane, Single-pass type I membrane protein
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	Promotes the growth of epithelial cells. May stimulate the phosphorylation of EGFR and mitogen-activated protein kinases.
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-PTGR2 antibody (AAA127630).Overlay histogram showing RT4 cells stained with AAA127630 (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-PTGR2 Antibody (AAA127630, 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 PTGR2 using anti-PTGR2 antibody (AAA127630).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 MCF-7 whole cell lysates,Lane 2: human RT4 whole cell lysates,Lane 3: human Caco-2 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-PTGR2 antigen affinity purified polyclonal antibody (#AAA127630) 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 PTGR2 at approximately 40 kDa. The expected band size for PTGR2 is at 40 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PTGR2 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-PTGR2 antibody	Primary Antibodies; Cancer; Cell Biology; Cell Cycle; Cell Differentiation; Tumor Biomarkers
References	1. Yun-Chia, C. E. , Yi-Cheng, C. , Chia-Tung, S. , Yu-Wen, T. , Shu-Huei, T. , & Siow-Wey, H. , et al. (2016). Inhibition of prostaglandin reductase 2, a putative oncogene overexpressed in human pancreatic adenocarcinoma, induces oxidative stress-mediated cell death involving xct and cth gene expressions through 15-keto-pge2. Plos One, 11(1), e0147390.2. Yun-Chia Chang, E. , Tsai, S. H. , Shun, C. T. , Hee, S. W. , Chang, Y. C. , & Tsai, Y. C. , et al. (2012). Prostaglandin reductase 2 modulates ros-mediated cell death and tumor transformation of gastric cancer cells and is associated with higher mortality in gastric cancer patients. American Journal of Pathology, 181(4), 1316-1326.3. Gao, K. , Lockwood, W. , Li, J. , Lam, W. , & Li, G. . (2008). Genomic analyses identify gene candidates for acquired irinotecan resistance in melanoma cells. International Journal of Oncology, 32(6), 1343-1349.

NCBI AND UNIPROT INFORMATION

NCBI GI #	226246680
NCBI GeneID	145482
NCBI Accession #	NP_001139626.1
NCBI GenBank Nucleotide #	NM_001146154.1
UniProt Accession #	Q8N8N7; Q3L8A4; Q6MZH8
Molecular Weight	38,499 Da
NCBI Official Full Name	prostaglandin reductase 2

NCBI Official Synonym Full Names	prostaglandin reductase 2
NCBI Official Symbol	PTGR2
NCBI Official Synonym Symbols	PGR2; ZADH1
NCBI Protein Information	prostaglandin reductase 2; PRG-2; 15-oxoprostaglandin 13-reductase; 15-oxoprostaglandin-delta13-reductase; zinc binding alcohol dehydrogenase, domain containing 1; zinc-binding alcohol dehydrogenase domain-containing protein 1
UniProt Protein Name	Prostaglandin reductase 2
UniProt Gene Name	PTGR2
UniProt Synonym Gene Names	ZADH1; PRG-2
UniProt Entry Name	PTGR2_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/ptgr2-antibody-flow-cytometry-western-blot-elisa/127630>