

Rabbit anti-Human PTGER3 Polyclonal Antibody | anti-PTGER3 antibody

Anti-PTGER3 Antibody Picoband

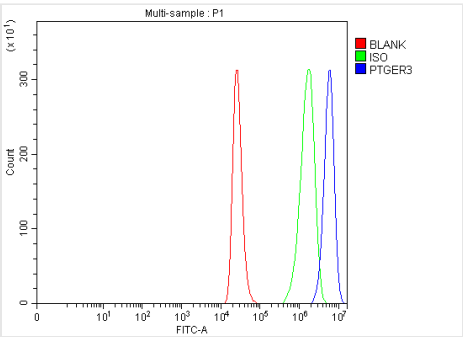
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127126	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

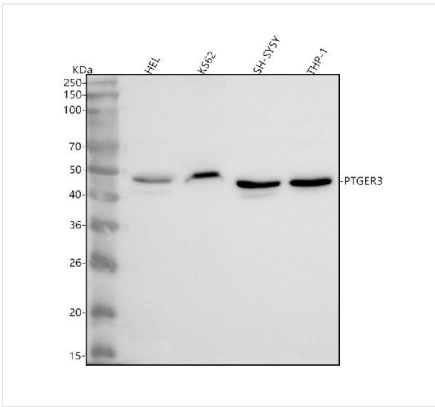
PTGER3; Polyclonal Antibody; Anti-PTGER3 Antibody Picoband; anti-PTGER3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
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-PTGER3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PTGER3 recombinant protein (Position: K2-R390).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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 THP-1 cells using anti-PTGER3 antibody (AAA127126). Overlay histogram showing THP-1 cells stained with AAA127126 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-PTGER3 Antibody (AAA127126, 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 PTGER3 using anti-PTGER3 antibody (AAA127126). 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 HEL whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human SH-SY5Y whole cell lysates, Lane 4: human THP-1 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-PTGER3 antigen affinity purified polyclonal antibody (#AAA127126) 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 PTGER3 at approximately 48 kDa. The expected band size for PTGER3 is at 43 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PTGER3 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-PTGER3 antibody	Primary Antibodies
References	1. Adam, M., Boie, Y., Rushmore, T. H., Muller, G., Bastien, L., McKee, K. T., Metters, K. M., Abramovitz, M. Cloning and expression of three isoforms of the human EP(3) prostanoid receptor. FEBS Lett. 338: 170-174, 1994.2. Aronoff, D. M., Lewis, C., Serezani, C. H., Eaton, K. A., Goel, D., Phipps, J. C., Peters-Golden, M., Mancuso, P. E-prostanoid 3 receptor deletion improves pulmonary host defense and protects mice from death in severe Streptococcus pneumoniae infection. J. Immun. 183: 2642-2649, 2009.3. Duncan, A. M. V., Anderson, L. L., Funk, C. D., Abramovitz, M., Adam, M. Chromosomal localization of the human prostanoid receptor gene family. Genomics 25: 740-742, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	186659506
NCBI GeneID	5733
NCBI Accession #	NP_001119516.1
NCBI GenBank Nucleotide #	NM_001126044.1
UniProt Accession #	P43115; O00326; Q12943; Q12944; Q12945; Q16546; B0AZN4; B5BUP5
Molecular Weight	43,310 Da
NCBI Official Full Name	prostaglandin E2 receptor EP3 subtype isoform 4
NCBI Official Synonym Full Names	prostaglandin E receptor 3 (subtype EP3)

NCBI Official Symbol	PTGER3
NCBI Official Synonym Symbols	EP3; EP3e; EP3-I; EP3-II; EP3-IV; PGE2-R; EP3-III
NCBI Protein Information	prostaglandin E2 receptor EP3 subtype; prostanoid EP3 receptor; PGE receptor, EP3 subtype; PGE2 receptor EP3 subtype; prostaglandin receptor (PGE-2); prostaglandin E receptor EP3 subtype 3 isoform
UniProt Protein Name	Prostaglandin E2 receptor EP3 subtype
UniProt Gene Name	PTGER3
UniProt Synonym Gene Names	PGE receptor EP3 subtype
UniProt Entry Name	PE2R3_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/ptger3-antibody-flow-cytometry-western-blot-elisa/127126>