

Mouse p23/PTGES3 Monoclonal Antibody | anti-PTGES3 antibody

Anti-p23/PTGES3 Antibody Picoband (monoclonal, 9D3D1)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126935	Mouse	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

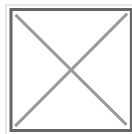
PRODUCT SYNONYMS

p23/PTGES3; Monoclonal Antibody; Anti-p23/PTGES3 Antibody Picoband (monoclonal; 9D3D1); anti-PTGES3 antibody

PRODUCT SPECIFICATIONS

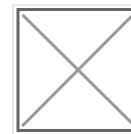
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	9D3D1
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-PTGES3 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human p23/PTGES3 recombinant protein (Position: M1-K79).
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of PC-3 cells using anti-p23/PTGES3 antibody (AAA126935). Overlay histogram showing PC-3 cells stained with AAA126935 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-p23/PTGES3 Antibody (AAA126935, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of p23/PTGES3 using anti-p23/PTGES3 antibody (AAA126935). p23/PTGES3 was detected in an immunocytochemical section of T-47D cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL mouse anti-p23/PTGES3 Antibody (AAA126935) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-mouse IgG (BA1141) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of p23/PTGES3 using anti-p23/PTGES3 antibody (AAA126935). 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 Jurkat whole cell lysates, Lane 3: human COLO-320 whole cell lysates, Lane 4: human K562 whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat RH35 whole cell lysates, Lane 7: mouse HEPA1-6 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 mouse anti-p23/PTGES3 antigen affinity purified monoclonal antibody (#AAA126935) at 0.5 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-mouse 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 p23/PTGES3 at approximately 23 kDa. The expected band size for p23/PTGES3 is at 23 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PTGES3 antibody	Prostaglandin E synthase 3 (cytosolic) is an enzyme that in humans is encoded by the PTGES3 gene. It is mapped to 12q13.3; 12. This gene encodes an enzyme that converts prostaglandin endoperoxide H2 (PGH2) to prostaglandin E2 (PGE2). This protein functions as a co-chaperone with heat shock protein 90 (HSP90), localizing to response elements in DNA and disrupting transcriptional activation complexes. Alternative splicing results in multiple transcript variants. There are multiple pseudogenes of this gene on several different chromosomes.
Product Categories/Family for anti-PTGES3 antibody	Primary Antibodies, Mouse Monoclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	23308579
NCBI GeneID	10728
NCBI Accession #	NP_006592.3
NCBI GenBank Nucleotide #	NM_006601.5
UniProt Accession #	Q15185; Q8WU70; A8K7D0
Molecular Weight	18,697 Da
NCBI Official Full Name	prostaglandin E synthase 3
NCBI Official Synonym Full Names	prostaglandin E synthase 3 (cytosolic)
NCBI Official Symbol	PTGES3
NCBI Official Synonym Symbols	P23; TEBP; cPGES
NCBI Protein Information	prostaglandin E synthase 3; Hsp90 co-chaperone; telomerase-binding protein p23; progesterone receptor complex p23; cytosolic prostaglandin E synthase; cytosolic prostaglandin E2 synthase; unactive progesterone receptor, 23 kD
UniProt Protein Name	Prostaglandin E synthase 3
UniProt Gene Name	PTGES3
UniProt Synonym Gene Names	P23; TEBP; cPGES
UniProt Entry Name	TEBP_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/monoclonal/p23-ptges3-antibody-clone-9d3d1-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/126935>