

Rabbit PTGES2/Gbf1 Polyclonal Antibody | anti-PTGES2/Gbf1 antibody

Anti-PTGES2/Gbf1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127397	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Western Blot, Immunocytochemistry, Immunohistochemistry, Immunofluorescence, ELISA

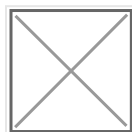
PRODUCT SYNONYMS

PTGES2/Gbf1; Polyclonal Antibody; Anti-PTGES2/Gbf1 Antibody Picoband; AP-2 complex subunit beta; neurocan; Neurocan core protein; Chondroitin sulfate proteoglycan 3; NCAN; CSPG3; NEUR; anti-PTGES2/Gbf1 antibody

PRODUCT SPECIFICATIONS

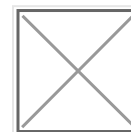
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Brain.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PTGES2/Gbf1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA
Immunogen	E coli-derived human PTGES2/Gbf1 recombinant protein (Position: L100-I370).
Subcellular Localization	Secreted
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	May modulate neuronal adhesion and neurite growth during development by binding to neural cell adhesion molecules (NG-CAM and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronic acid.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of MCF-7 cells using anti-PTGES2/Gbf1 antibody (AAA127397).Overlay histogram showing MCF-7 cells stained with AAA127397 (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-PTGES2/Gbf1 Antibody (AAA127397, 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.



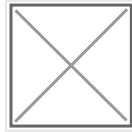
IF (Immunofluorescence)

Figure 4. IF analysis of PTGES2/Gbf1 using anti-PTGES2/Gbf1 antibody (AAA127397).PTGES2/Gbf1 was detected in an immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PTGES2/Gbf1 Antibody (AAA127397) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 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.



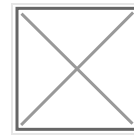
IHC (Immunohistochemisry)

Figure 3. IHC analysis of PTGES2/Gbf1 using anti-PTGES2/Gbf1 antibody (AAA127397).PTGES2/Gbf1 was detected in a paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PTGES2/Gbf1 Antibody (AAA127397) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of PTGES2/Gbf1 using anti-PTGES2/Gbf1 antibody (AAA127397).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 Hacat whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: human A549 whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: mouse brain 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-PTGES2/Gbf1 antigen affinity purified polyclonal antibody (#AAA127397) 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 PTGES2/Gbf1 at approximately 42 kDa. The expected band size for PTGES2/Gbf1 is at 42 kDa.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of PTGES2/Gbf1 using anti-PTGES2/Gbf1 antibody (AAA127397).PTGES2/Gbf1 was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PTGES2/Gbf1 Antibody (AAA127397) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-PTGES2/Gbf1 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-PTGES2/Gbf1 antibody	Primary Antibodies ; Cell Adhesion Proteins ; ECM Proteins ; Neuroscience
References	1. Hu, J., Meng, Q., Roy, S. K., Raha, A., Hu, J., Zhang, J., Hashimoto, K., Kalvakolanu, D. V. A novel transactivating factor that regulates interferon-gamma-dependent gene expression. J. Biol. Chem. 277: 30253-30263, 2002. 2. Nitz, I., Fisher, E., Grallert, H., Li, Y., Gieger, C., Rubin, D., Boeing, H., Spranger, J., Lindner, I., Schreiber, S., Rathmann, W., Gohlke, H., Doring, A., Wichmann, H.-E., Schrezenmeir, J., Doring, F., Illig, T. Association of prostaglandin E synthase 2 (PTGES2) arg298-to-his polymorphism with type 2 diabetes in two German study populations. J. Clin. Endocr. Metab. 92: 3183-3188, 2007. 3. Tanikawa, N., Ohmiya, Y., Ohkubo, H., Hashimoto, K., Kangawa, K., Kojima, M., Ito, S., Watanabe, K. Identification and characterization of a novel type of membrane-associated prostaglandin E synthase. Biochem. Biophys. Res. Commun. 291: 884-889, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	373251223
NCBI GeneID	80142
NCBI Accession #	NP_001243264.1
NCBI GenBank Nucleotide #	NM_001256335.1
UniProt Accession #	Q9H7Z7 ; Q53EW9 ; Q5SYV6 ; Q96GI0 ; Q96GL2
Molecular Weight	41,943 Da

NCBI Official Full Name	prostaglandin E synthase 2 isoform 2
NCBI Official Synonym Full Names	prostaglandin E synthase 2
NCBI Official Symbol	PTGES2
NCBI Official Synonym Symbols	GBF1; GBF-1; PGES2; C9orf15; mPGES-2
NCBI Protein Information	prostaglandin E synthase 2; GATE-binding factor 1; microsomal prostaglandin E synthase-2; membrane-associated prostaglandin E synthase 2; gamma-interferon-activated transcriptional element-binding factor 1
UniProt Protein Name	Prostaglandin E synthase 2
UniProt Gene Name	PTGES2
UniProt Synonym Gene Names	C9orf15; PGES2; mPGES-2
UniProt Entry Name	PGES2_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/ptges2-gbf1-antibody-flow-cytometry-western-blot-immunocytochemistry-immunohistochemistry-immunofluorescence-elisa/127397>