BOSTER BIOLOGICAL TECHNOLOGY
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Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody Picoband®

Catalog Number: PA1725

About PTGS2

Cyclooxygenase (Cox) is the key enzyme in conversion of arachidonic acid to PGs, and two isoforms, Cox-1 and Cox-2, have been identified. Cox-2 gene encodes an inducible prostaglandin synthase enzyme that is overexpressed in adenocarcinomas and other tumors. Deletion of the murine Cox-2 gene in Min mice reduced the incidence of intestinal tumors, suggesting that it is required for tumorigenesis. This gene is localized to sites associated with retinal blood vessels, and plays an important role in blood vessel formation in the retina. And the glucocorticoid receptor suppression of COX-2 is also crucial for curtailing lethal immune activation, and suggest new therapeutic approaches for regulation of T-cell-mediated inflammatory diseases.

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Overview

Product Name	Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody Picoband®
Reactive Species	Human, Mouse
Description	Boster Bio Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody catalog # PA1725. Tested in IHC, WB applications. This antibody reacts with Human, Mouse. 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.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P35354

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antibody and ELISA experts

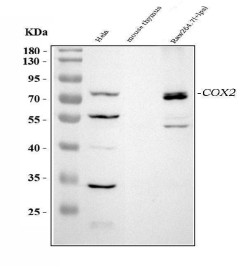
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Technical Details

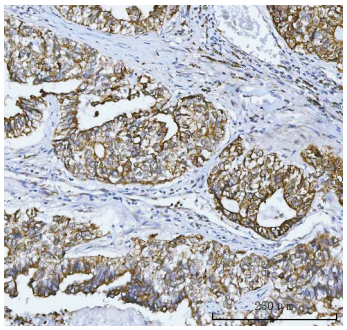
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human COX2.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human, Mouse Western blot, 0.1-0.5ug/ml, Human, Mouse

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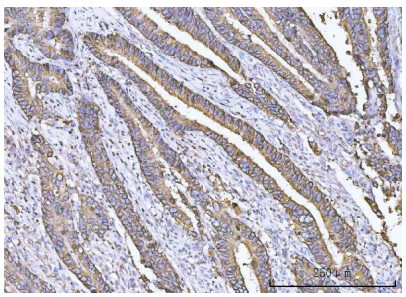
Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody Picoband® (PA1725) Images



Western blot analysis of PTGS2 using anti-PTGS2 antibody (PA1725). 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: mouse thymus tissue lysates, Lane 3: mouse RAW264.7 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-PTGS2 antigen affinity purified polyclonal antibody (Catalog # PA1725) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PTGS2 at approximately 75 kDa. The expected band size for PTGS2 is at 69 kDa.



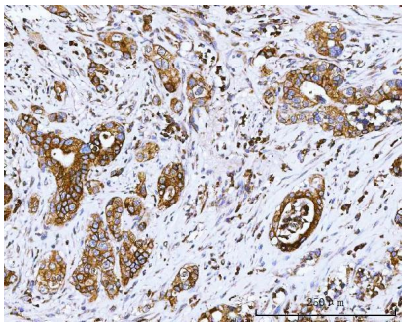
IHC analysis of SOX2 using anti-SOX2 antibody (PA1725). SOX2 was detected in a paraffin-embedded section of human lung adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SOX2 Antibody (PA1725) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



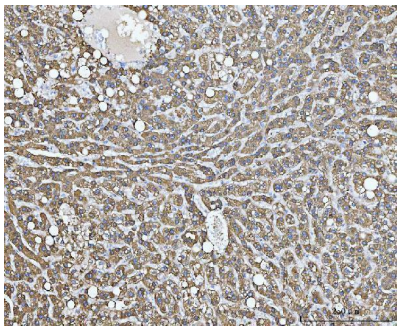
IHC analysis of SOX2 using anti-SOX2 antibody (PA1725). SOX2 was detected in a paraffin-embedded section of human colonic adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SOX2 Antibody (PA1725) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

IHC analysis of SOX2 using anti-SOX2 antibody (PA1725). SOX2 was detected in a paraffin-embedded section of human differentiated adenocarcinoma in the appendix-1 tissue. Heat mediated antigen retrieval was performed in

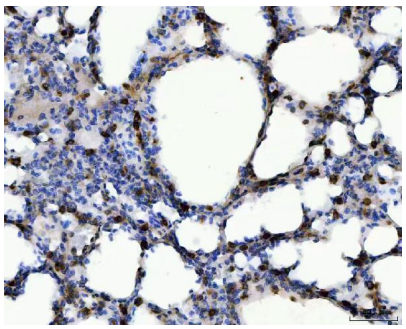
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EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SOX2 Antibody (PA1725) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of SOX2 using anti-SOX2 antibody (PA1725). SOX2 was detected in a paraffin-embedded section of human liver 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 2 ug/ml rabbit anti-SOX2 Antibody (PA1725) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of SOX2 using anti-SOX2 antibody (PA1725). SOX2 was detected in a paraffin-embedded section of mouse lung 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 2 ug/ml rabbit anti-SOX2 Antibody (PA1725) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

32 Publications Citing This Product

1. PubMed ID: 25297608, Liu H, Yan Zq, Li B, Yin Sy, Sun Q, Kou Jj, Ye D, Ferns K, Liu Hy, Liu Sl. J Ovarian Res. 2014 Sep 5;7:87. Doi: 10.1186/S13048-014-0087-1. Reduced Expression Of Sox7 In Ovarian Cancer: A Novel Tumor Suppressor Through The Wnt/??-Catenin Signaling ...

2. PubMed ID: 21074783, Ni Yf, Kuai Jk, Lu Zf, Yang Gd, Fu Hy, Wang J, Tian F, Yan Xl, Zhao Yc, Wang Yj, Jiang T. J Surg Res. 2011 Jan;165(1):E29-35. Doi: 10.1016/J.Jss.2010.10.004. Epub 2010 Nov 10. Glycyrrhizin Treatment Is Associated With Attenuation Of Lipopolysaccha...

3. PubMed ID: 20382007, Guo J, Li F, Wu Q, Gong Q, Lu Y, Shi J. Phytomedicine. 2010 Oct;17(12):950-5. Doi: 10.1016/J.Phymed.2010.03.007. Epub 2010 Apr 9. Protective Effects Of Icariin On Brain Dysfunction Induced By Lipopolysaccharide In Rats.

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