



Datasheet for ABIN3042528  
**anti-PTGS1 antibody (AA 318-599)**



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## Overview

Quantity:	100 µg
Target:	PTGS1
Binding Specificity:	AA 318-599
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTGS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Prostaglandin G/H synthase 1(PTGS1) detection. Tested with WB, IHC-P in Human,Rat.
Brand:	Picoband™
Immunogen:	E.coli-derived human COX1 recombinant protein (Position: E318-L599). Human COX1 shares 90% and 89% amino acid (aa) sequence identity with mouse and ratCOX1, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Prostaglandin G/H synthase 1(PTGS1) detection. Tested with WB, IHC-P in Human,Rat. Gene Name: prostaglandin-endoperoxide synthase 1 Protein Name: Prostaglandin G/H synthase 1

## Product Details

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Purification: Immunogen affinity purified.

## Target Details

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Target: PTGS1

Alternative Name: PTGS1 ([PTGS1 Products](#))

Background: Cyclooxygenase 1(COX1), also known as Prostaglandin-endoperoxide synthase (PTGS1) or mitochondrial cytochrome c oxidase subunit 1, is the key enzyme in prostaglandin biosynthesis. The gene was approximately 40 kb long, with 11 protein-coding exons. There were 599 amino acid residues with a calculated molecular mass of approximately 68 kD. By analysis of a human/hamster somatic hybrid DNA panel, it was demonstrated that the PTGS1 gene maps to chromosome 9. Human prostaglandin endoperoxide synthase exhibited 91 % amino acid identity with the sheep enzyme. Prostaglandin synthase 1 gene disruption in mice reduces arachidonic acid-induced inflammation and indomethacin-induced gastric ulceration.

Synonyms: COX 1 antibody|COX 3 antibody|COX-1 antibody|COX1 antibody|COX3 antibody|Cyclooxygenase 1 antibody|Cyclooxygenase 3, included antibody|Cyclooxygenase-1 antibody|Cyclooxygenase1 antibody|EC 1.14.99.1 antibody|Partial COX1 proteins, included antibody|PCOX 1 antibody|PCOX1 antibody|PGG/HS antibody|PGH synthase 1 antibody|PGH1\_HUMAN antibody|PGHS 1 antibody|PGHS-1 antibody|PGHS1 antibody|PHS 1 antibody|PHS1 antibody|Prostaglandin endoperoxide synthase 1 antibody|Prostaglandin G/H synthase 1 antibody|Prostaglandin G/H synthase and cyclooxygenase antibody|Prostaglandin H Synthase 1 antibody|Prostaglandin H2 synthase 1 antibody|Prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase) antibody|Prostaglandin-endoperoxide synthase 1 antibody|PTGHS antibody|PTGS 1 antibody|PTGS1 antibody

UniProt: [P23219](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

## Application Details

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Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

## Handling

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Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

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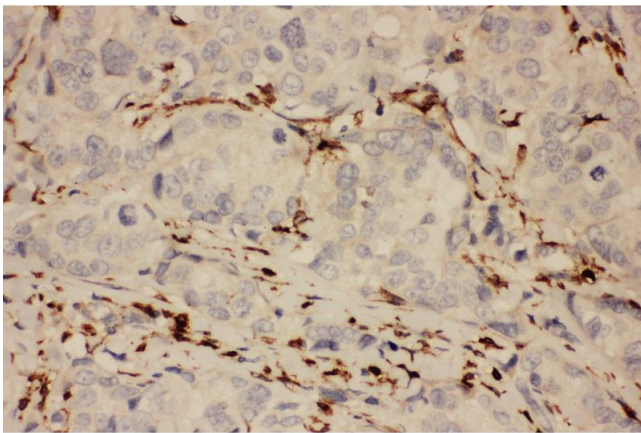
Product cited in:	<p>Zhang, Wang, Yue, Liu, Liu: "Construction of a CXCL12-KDEL fusion gene to inhibit head and neck squamous cell carcinoma metastasis by intracellular sequestration of CXCR4." in: <b>BioMed research international</b>, Vol. 2015, pp. 195828, (2015) (<a href="#">PubMed</a>).</p> <p>Zhu, Sun, Tan, Xu, Dai, Wang, Fan, Zhou: "Tacrolimus promotes hepatocellular carcinoma and enhances CXCR4/SDF-1α expression in vivo." in: <b>Molecular medicine reports</b>, Vol. 10, Issue 2, pp. 585-92, (2015) (<a href="#">PubMed</a>).</p> <p>Liu, Wang, Wang, Wang: "Anticancer effects of chemokine receptor 4(CXCR4) gene silenced by CXCR4-siRNA in nude mice model of ovarian cancer." in: <b>Cell biochemistry and biophysics</b>, Vol. 70, Issue 3, pp. 1893-900, (2014) (<a href="#">PubMed</a>).</p> <p>Li, Chen, Yuan, Zhou, He, Zu, Qi: "CXCR4 expression in bladder transitional cell carcinoma and</p>
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its relationship with clinicopathological features." in: **Urologia internationalis**, Vol. 92, Issue 2, pp. 157-63, (2014) ([PubMed](#)).

Tan, Chang, Liu, Tang: "Silencing of CXCR4 inhibits tumor cell proliferation and neural invasion in human hilar cholangiocarcinoma." in: **Gut and liver**, Vol. 8, Issue 2, pp. 196-204, (2014) ([PubMed](#)).

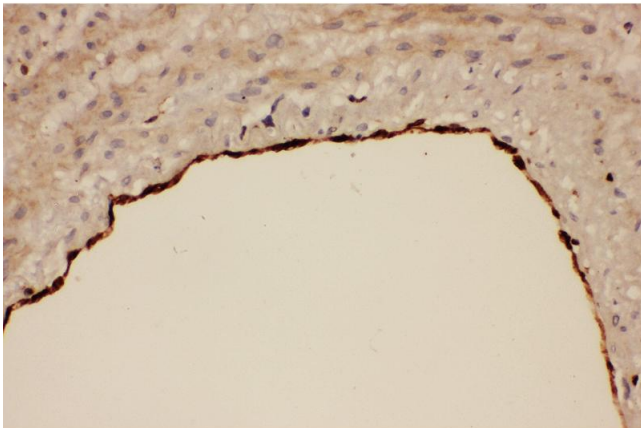
## Images

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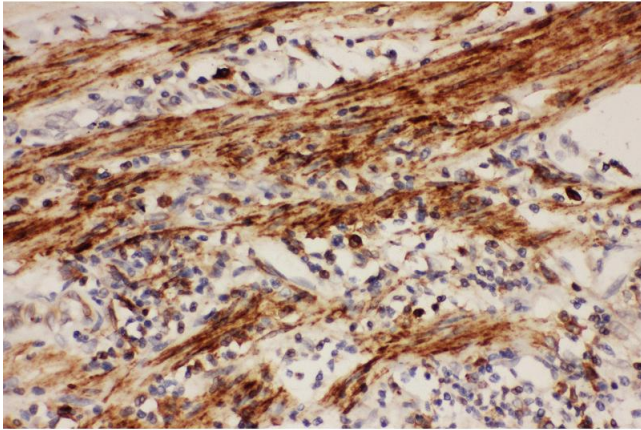
### Immunohistochemistry

**Image 1.** Anti-COX1 Picoband antibody, IHC(P): Human Mammary Cancer Tissue



### Immunohistochemistry

**Image 2.** Anti-COX1 Picoband antibody, IHC(P): Human Lung Cancer Tissue



### Immunohistochemistry

**Image 3.** Anti-COX1 Picoband antibody, IHC(P): Human Intestinal Cancer Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3042528.