



Datasheet for ABIN670446  
**anti-PTGS1 antibody (AA 151-250)**



[Go to Product page](#)

2 Images

2 Publications

## Overview

Quantity:	100 µL
Target:	PTGS1
Binding Specificity:	AA 151-250
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTGS1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from rat Cyclooxygenase 1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Dog,Cow,Sheep,Pig
Purification:	Purified by Protein A.

## Target Details

Target:	PTGS1
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## Target Details

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Alternative Name: Cyclooxygenase 1 ([PTGS1 Products](#))

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Background: Synonyms: Cyclooxygenase-1, Cyclooxygenase 1, COX-1, COX 1, COX1, Cyclooxygenase1, Prostaglandin-endoperoxide synthase-1, prostaglandin-endoperoxide synthase 1, PTGS-1, Prostaglandin G/H synthase 1 precursor, prostaglandin G/H synthase 1 isoform 1 precursor, Prostaglandin H2 synthase 1, PGH synthase 1, PGHS-1, PHS 1, PGH1\_HUMAN, PTGS1, Prostaglandin G/H synthase 1 precursor.

Background: This is one of two genes encoding similar enzymes that catalyze the conversion of arachidonate to prostaglandin. The encoded protein regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. The protein may promote cell proliferation during tumor progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2012].

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UniProt: [Q63921](#)

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## Application Details

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Application Notes: WB 1:300-5000  
ELISA 1:500-1000  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 µg/µL

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Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

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Preservative: ProClin

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Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

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Storage: 4 °C,-20 °C

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Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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## Handling

Expiry Date: 12 months

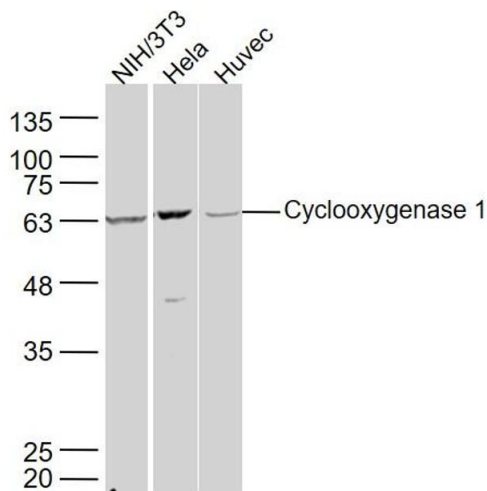
## Publications

Product cited in:

Hu, Xi, Cao, Yang, Liu, Sheng, Han, Yuan, Guo, Weng, Xu: "The expression of prostaglandin-E2 and its receptor in the oviduct of Chinese brown frog (*Rana dybowskii*)." in: **Prostaglandins & other lipid mediators**, Vol. 124, pp. 9-15, (2016) ([PubMed](#)).

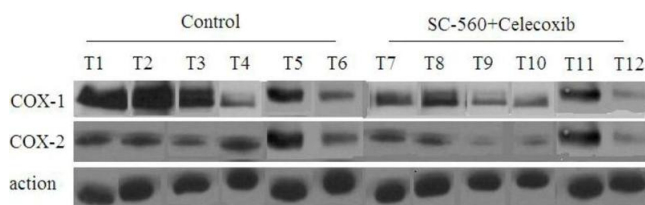
Li, Wang, Jiang, Xu, Zhang, Liu, Zhai: "Combined effects of cyclooxygenase-1 and cyclooxygenase-2 selective inhibitors on ovarian carcinoma in vivo." in: **International journal of molecular sciences**, Vol. 12, Issue 1, pp. 668-81, (2011) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** Lane 1: NIH/3T3 lysates Lane 2: HeLa lysates Lane 3: Huvec lysates probed with Cyclooxygenase 1 Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.



### Western Blotting

**Image 2.** COX protein levels in xenograft tumors of nude mice treated or not treated with combined treatment of SC-560 and celecoxib. COX-1 and COX-2 protein levels were analyzed by Western blotting. Anti-β-actin was used as a control for equal loading. Lanes 1-6: tumor tissues of six mice in control group. Lanes 7-12: tumor tissues of six mice in the combination group. - figure provided by CiteAb. Source: PMID21340007