


# Anti-COX2 / Cyclooxygenase 2 antibody ab15191

★★★★☆ [38 Abreviews](#) [394 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-COX2 / Cyclooxygenase 2 antibody
<b>Description</b>	Rabbit polyclonal to COX2 / Cyclooxygenase 2
<b>Host species</b>	Rabbit
<b>Specificity</b>	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
<b>Tested applications</b>	<b>Suitable for:</b> WB, Sandwich ELISA, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Syrian hamster 
<b>Immunogen</b>	Synthetic peptide within Rat COX2/ Cyclooxygenase 2 aa 550 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: <a href="#">P35355</a>
<b>General notes</b>	<p><b>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</b></p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
<b>Purity</b>	Immunogen affinity purified

<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab15191 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>	★★★★★ (19)	Use at an assay dependent concentration. Predicted molecular weight: 69 kDa.
<b>Sandwich ELISA</b>		Use a concentration of 0.5 µg/ml. For sandwich ELISA, use this antibody as Detection at 0.5µg/ml with <b>ab90345</b> as Capture.
<b>IHC-P</b>	★★★★★ (8)	1/100.

## Target

<b>Function</b>	Mediates the formation of prostaglandins from arachidonate. May have a role as a major mediator of inflammation and/or a role for prostanoid signaling in activity-dependent plasticity.
<b>Pathway</b>	Lipid metabolism; prostaglandin biosynthesis.
<b>Sequence similarities</b>	Belongs to the prostaglandin G/H synthase family. Contains 1 EGF-like domain.
<b>Post-translational modifications</b>	S-nitrosylation by NOS2 (iNOS) activates enzyme activity. S-nitrosylation may take place on different Cys residues in addition to Cys-561.
<b>Cellular localization</b>	Microsome membrane. Endoplasmic reticulum membrane.

## Images



Western blot - Anti-COX2 / Cyclooxygenase 2 antibody (ab15191)

**All lanes :** Anti-COX2 / Cyclooxygenase 2 antibody (ab15191) at 1 µg/ml

**Lane 1 :** Recombinant human COX2 / Cyclooxygenase 2 protein (Active) (**ab58868**) at 0.1 µg

**Lane 2 :** Recombinant human COX2 / Cyclooxygenase 2 protein (Active) (**ab58868**) at 0.01 µg

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 69 kDa

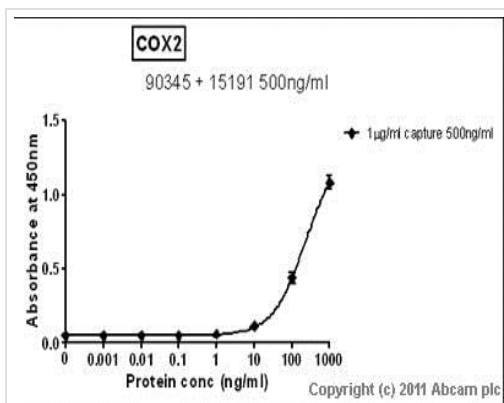
**Exposure time:** 10 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COX2 / Cyclooxygenase 2 antibody (ab15191)

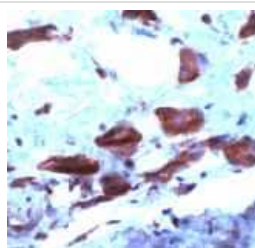
This image is courtesy of an Abreview submitted by Mr Carl Hobbs

ab15191 staining mouse brain sections by IHC-P. Sections were formaldehyde fixed and subjected to heat mediated antigen retrieval in citrate buffer prior to blocking with 1% BSA for 10 minutes at RT. The primary antibody was diluted 1/2000 and incubated with the sample for 2 hours. A biotinylated goat anti-rabbit IgG antibody, diluted 1/300, was used as the secondary. Sections were preblocked in an Avidin-Biotin kit to mask endogenous biotin



Standard Curve for COX2 / Cyclooxygenase 2 (Analyte: **ab58868**)  
 dilution range 1pg/ml to 1ug/ml using Capture Antibody Mouse  
 monoclonal [AS66] to COX2 / Cyclooxygenase 2 (**ab90345**) at  
 1ug/ml and Detector Antibody Rabbit polyclonal to COX2 /  
 Cyclooxygenase 2 (**ab15191**) at 0.5ug/ml

Sandwich ELISA - Anti-COX2 / Cyclooxygenase 2  
 antibody (**ab15191**)



**ab15191** staining COX2 / Cyclooxygenase in human breast  
 carcinoma by Immunohistochemistry (FFPE-sections).

Immunohistochemistry (Formalin/PFA-fixed paraffin-  
 embedded sections) - Anti-COX2 / Cyclooxygenase  
 2 antibody (**ab15191**)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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