

Anti-COX2 / Cyclooxygenase 2 antibody ab52237

★★★★★ [6 Abreviews](#) [90 References](#) [4 Images](#)

Overview

Product name	Anti-COX2 / Cyclooxygenase 2 antibody
Description	Rabbit polyclonal to COX2 / Cyclooxygenase 2
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human COX2/ Cyclooxygenase 2.
Positive control	WB: Human primary myometrial cells whole cell lysate, A549 cells. ICC/IF: A549 cells.
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

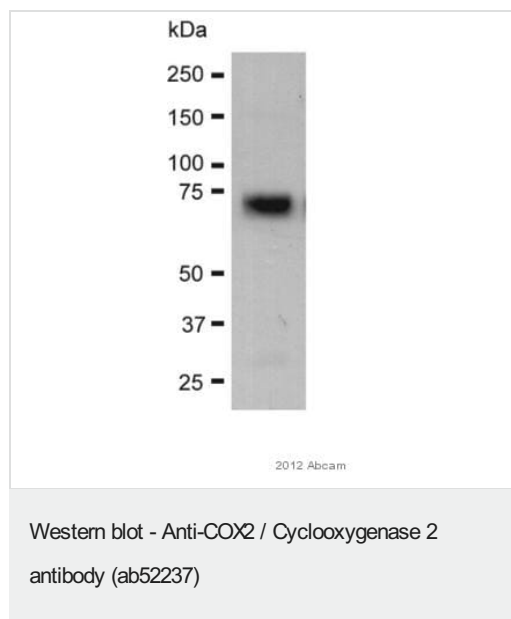
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52237 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (6)	1/500 - 1/1000. Detects a band of approximately 69 kDa (predicted molecular weight: 69 kDa).
ICC/IF		1/100 - 1/500.

Target

Function	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.
Pathway	Lipid metabolism; prostaglandin biosynthesis.
Sequence similarities	Belongs to the prostaglandin G/H synthase family. Contains 1 EGF-like domain.
Post-translational modifications	S-nitrosylation by NOS2 (iNOS) activates enzyme activity. S-nitrosylation may take place on different Cys residues in addition to Cys-561.
Cellular localization	Microsome membrane. Endoplasmic reticulum membrane.

Images



Anti-COX2 / Cyclooxygenase 2 antibody (ab52237) at 1/1000 dilution + Human primary myometrial cells whole cell lysate at 20 µg

Secondary

Anti-rabbit IgG, HRP-linked at 1/4000 dilution

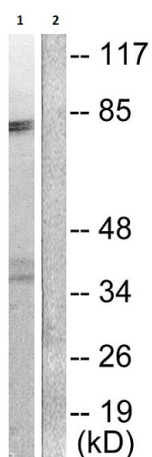
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 69 kDa

Observed band size: 70 kDa

Exposure time: 1 minute



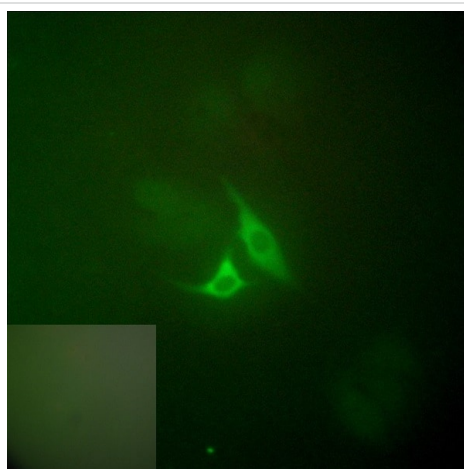
Western blot - Anti-COX2 / Cyclooxygenase 2 antibody (ab52237)

All lanes : Anti-COX2 / Cyclooxygenase 2 antibody (ab52237) at 1/500 dilution

Lane 1 : A549 (Human lung adenocarcinoma epithelial)

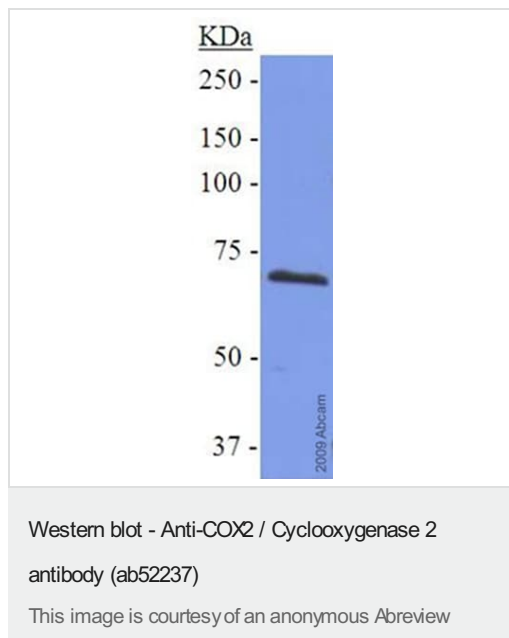
Lane 2 : A549 (Human lung adenocarcinoma epithelial) with Synthesized Peptide

Predicted band size: 69 kDa



Immunocytochemistry/ Immunofluorescence - Anti-COX2 / Cyclooxygenase 2 antibody (ab52237)

Immunocytochemistry/immunofluorescence analysis of A549 (Human lung adenocarcinoma epithelial) cells labelling COX2 / Cyclooxygenase 2 with ab52237 at dilution of 1/100. No staining was observed when blocked with synthesized peptide as shown in the inset.



Anti-COX2 / Cyclooxygenase 2 antibody (ab52237) (Human mesothelioma whole cell lysate.)

Secondary

Goat anti-rabbit HRP

Predicted band size: 69 kDa

Please see accompanying abreview for additional information

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

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