

Product datasheet

Anti-COX2 / Cyclooxygenase 2 antibody ab52237

★★★★★ 5 Abreviews 63 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: Mouse, Rat, 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>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as 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	pH: 7 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab52237** in the following tested applications.

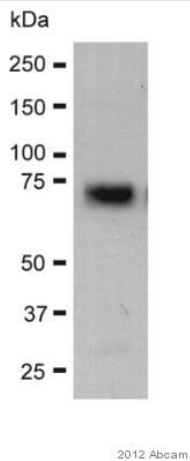
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆	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



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

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.

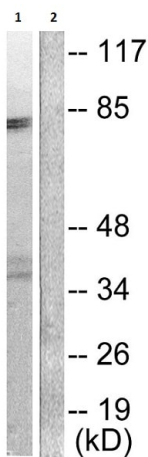
Performed under reducing conditions.

Predicted band size: 69 kDa

Observed band size: 70 kDa

[why is the actual band size different from the predicted?](#)

Exposure time: 1 minute



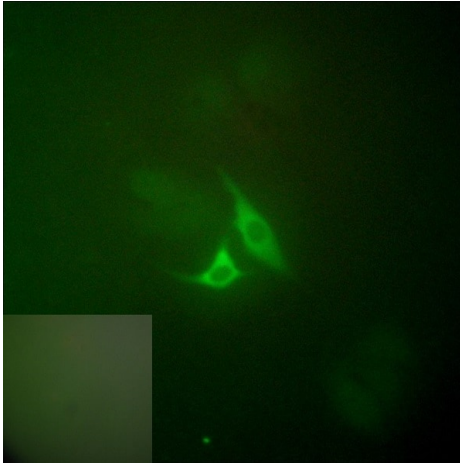
Western blot - Anti-COX2 / Cyclooxygenase 2 antibody (ab52237)

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

Lane 1 : A549 (Human lung adenocarcinoma epithelial)

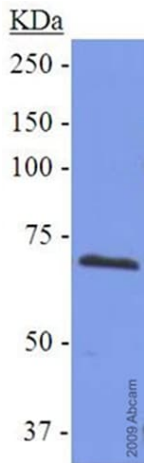
Lane 2 : A549 (Human lung adenocarcinoma epithelial) with Synthesized Peptide

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.



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

This image is courtesy of an anonymous Abreview

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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