

Product datasheet

# Anti-COX2 / Cyclooxygenase 2 antibody [5E10/D10] ab701

1 Image

Overview

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<b>Product name</b>	Anti-COX2 / Cyclooxygenase 2 antibody [5E10/D10]
<b>Description</b>	Mouse monoclonal [5E10/D10] to COX2 / Cyclooxygenase 2
<b>Host species</b>	Mouse
<b>Specificity</b>	COX-2. No cross-reactivity with Cox-1.
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	A preparation of intracellular proteins of the human cell line HL60.
<b>General notes</b>	Please note that we have received a report from a customer working with this antibody that they obtain two strong bands in WB (one between 40 - 50kDa and other other between 62 - 83kDa). A single band at around 72kDa is expected.

Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: PBS; (FCS free).
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	5E10/D10
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

Applications

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Our [Abpromise guarantee](#) covers the use of **ab701** in the following tested applications.

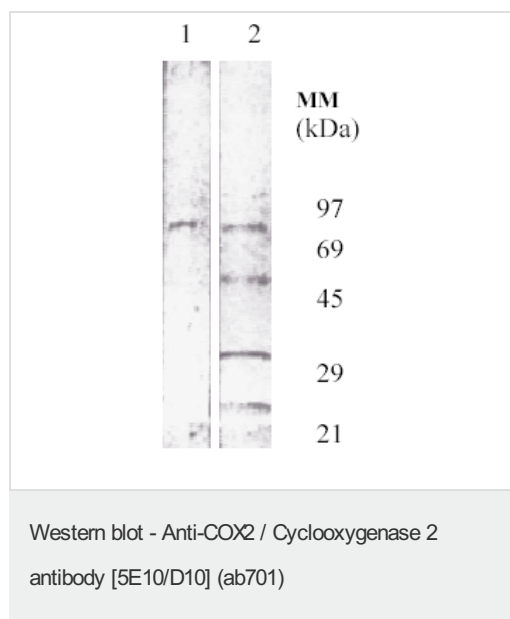
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 1 µg/ml.
ELISA		Use a concentration of 0.1 - 0.5 µg/ml.

## 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



Lane 1: Cox-2 (protein standard prepared from ovine placenta, supplied by Alpha Diagnostic International).

Lane 2: MM standard  
Antibody 5E10/D10: 1 µg/ml

Lane 1: Cox-2 (protein standard prepared from ovine placenta, supplied by Alpha Diagnostic International).

Lane 2: MM standard  
Antibody 5E10/D10: 1 µg/ml

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