

Product datasheet

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

1 Image

Overview

Product name	Anti-COX2 / Cyclooxygenase 2 antibody [5E10/D10]
Description	Mouse monoclonal [5E10/D10] to COX2 / Cyclooxygenase 2
Host species	Mouse
Specificity	COX-2. No cross-reactivity with Cox-1.
Tested applications	Suitable for: WB, ELISA
Species reactivity	Reacts with: Mouse, Human
Immunogen	A preparation of intracellular proteins of the human cell line HL60.
General notes	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

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

Applications

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

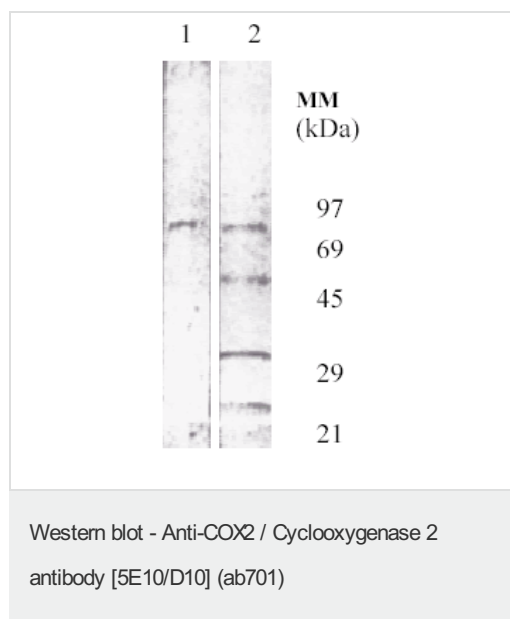
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

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



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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Lane 2: MM standard

Antibody 5E10/D10: 1 µg/ml

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