

Product datasheet

Anti-COX1 / Cyclooxygenase 1 antibody [5F6/F4] ab695

★★★★★ [5 Abreviews](#) [21 References](#) [1 Image](#)

Overview

Product name	Anti-COX1 / Cyclooxygenase 1 antibody [5F6/F4]
Description	Mouse monoclonal [5F6/F4] to COX1 / Cyclooxygenase 1
Host species	Mouse
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus corresponding to Human COX1/ Cyclooxygenase 1. A preparation of intracellular proteins of the human cell line HL60.
Positive control	WB: Huh-7 whole cell lysate. COX1 protein standard prepared from ram seminal vesicles. Flow Cytometry: NIH/3T3 cells. IHC-P: Human anal cancer tissue. Mouse kidney tissue. IHC-Fr: Human breast and breast tumor tissue. IP: Huh-7 whole cell lysate.
General notes	<p>Please note that we have received reports from customers working with this antibody that they obtain two strong bands in Western blot. A single band at around 72kDa is expected. One customer reported that when tested with three different human cell lines two strong bands are obtained, one between 40 - 50kDa and other other between 62 - 83kDa. It is possible that a degraded form of the enzyme is detected or the bands may correspond to different glycosylation states.</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&As</p>

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	5F6/F4
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab695 in the following tested applications.

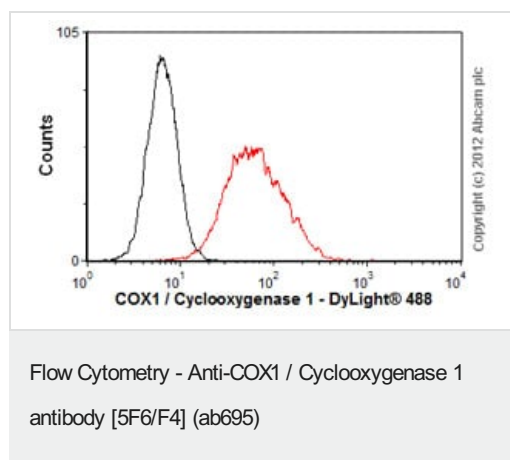
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 1-2µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function	May play an important role in regulating or promoting cell proliferation in some normal and neoplastically transformed cells.
Pathway	Lipid metabolism; prostaglandin biosynthesis.
Sequence similarities	Belongs to the prostaglandin G/H synthase family. Contains 1 EGF-like domain.
Cellular localization	Microsome membrane. Endoplasmic reticulum membrane.

Images



Overlay histogram showing NIH/3T3 (Mouse embryo fibroblast cell line) cells stained with ab695 (red line). The cells were fixed with 80% methanol (5 minutes) and then permeabilized with 0.1% PBS-Tween for 20 minutes. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab695, 2 µg/1x10⁶ cells) for 30 minutes at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 minutes at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2 µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

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

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