abcam

Product datasheet

Anti-COX2 / Cyclooxygenase 2 antibody [EP1978Y] ab62331

★★★★★ 15 Abreviews 70 References 5 图像

概述

产品名称	Anti-COX2 / Cyclooxygenase 2 抗体 [EP1978Y]		
描述	兔单克隆抗体[EP1978Y] to COX2 / Cyclooxygenase 2		
宿主	Rabbit		
经测试应 用	适用于: WB 不适用于: Flow Cyt or ICC/IF		
种属反 应性	与反应: Mouse, Human		
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as <u>ab213704</u>)		
阳性 对照	WB: Raw264.7 cell lysate + LPS.		
常 规说 明	Abcam recommends ab179800 for use in ICC/IF.		
	This product is a recombinant monoclonal antibody, which offers several advantages including:		
	- High batch-to-batch consistency and reproducibility		
	- Improved sensitivity and specificity		
	- Long-term security of supply		
	- Animal-free production		
	For more information <u>see here</u> .		
	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit		
	monoclonal antibodies. For details on our patents, please refer to <u>RabMAb[®] patents</u> .		
	Rat: We have preliminary internal testing data to indicate this antibody may not react with this		
	species. Please contact us for more information.		

性能	
形式	Liquid
存 放 说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
解离常数(K _D)	$K_{\rm D} = 1.01 \times 10^{-11} {\rm M}$
	10 ⁻¹¹

AFFINITY 10⁻¹⁰ AFFINITY

-7 -8 -9 -10 -11 -12

Learn more about K_D

存储溶液	рН: 7.20	
	Preservative: 0.01% Sodium azide	
	Constituents: PBS, 40% Glycerol, 0.05% BSA	
纯 度	Protein A purified	
克隆	单 克隆	
克 隆 编号	EP1978Y	
同种型	lgG	

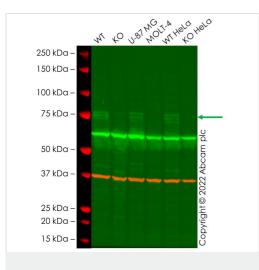
应用

The Abpromise guarantee Abpromise™承诺保证使用ab62331于以下的经测试应用

"应用说明"部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明		
WB	★★★★☆ (7)	1/500 - 1/1000. Detects a band of approximately 72 kDa (predicted molecular weight: 69 kDa).Can be blocked with <u>COX2</u> / Cyclooxygenase 2 peptide (ab213704).		
应用说明	ls unsuitable for Flow Cyt o	Is unsuitable for Flow Cyt or ICC/IF.		
靶 标				
功能		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.		
通路	Lipid metabolism; prostagl	Lipid metabolism; prostaglandin biosynthesis.		
序列相似性		Belongs to the prostaglandin G/H synthase family. Contains 1 EGF-like domain.		
翻 译后 修 饰		S-nitrosylation by NOS2 (iNOS) activates enzme activity. S-nitrosylation may take place on different Cys residues in addition to Cys-561.		
细 胞定位	Microsome membrane. En	Microsome membrane. Endoplasmic reticulum membrane.		

图片



Western blot - Anti-COX2 / Cyclooxygenase 2 antibody [EP1978Y] (ab62331) All lanes : Anti-COX2 / Cyclooxygenase 2 antibody [EP1978Y] (ab62331) at 1/500 dilution

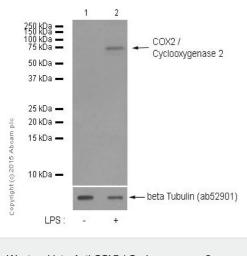
- Lane 1 : Wild-type A549 cell lysate
- Lane 2 : PTGS2 knockout A549 cell lysate
- Lane 3 : U-87 MG cell lysate
- Lane 4 : MOLT-4 cell lysate
- Lane 5 : Wild-type Hela ab255929 cell lysate
- Lane 6 : PTGS2 knockout HeLa ab255524 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 69 kDa Observed band size: 75 kDa

False colour image of Western blot: Anti-COX2 / Cyclooxygenase 2 antibody [EP1978Y] staining at 1/500 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (ab8245) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab62331 was shown to bind specifically to COX2 / Cyclooxygenase 2. A band was observed at 75 kDa in wild-type A549 cell lysates with no signal observed at this size in PTGS2 knockout cell line ab280802 (knockout cell lysate ab283825). The band at 65 kDa is a unknown protein as a result of non-specific binding of the antibody. To generate this image, wild-type and PTGS2 knockout A549 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-COX2 / Cyclooxygenase 2 antibody [EP1978Y] (ab62331) **All lanes :** Anti-COX2 / Cyclooxygenase 2 antibody [EP1978Y] (ab62331) at 1/1000 dilution (purified)

Lane 1 : Untreated Raw 264.7 cell lysate Lane 2 : Raw 264.7 treated with LPS

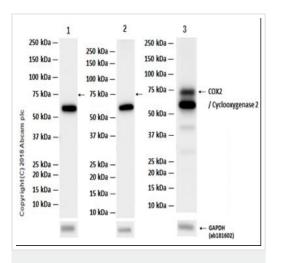
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit lgG (H+L) at 1/50000 dilution

Predicted band size: 69 kDa Observed band size: 72 kDa

Blocking and dilution buffer: 5% NFDM/TBST



Western blot - Anti-COX2 / Cyclooxygenase 2 antibody [EP1978Y] (ab62331) All lanes : Anti-COX2 / Cyclooxygenase 2 antibody [EP1978Y] (ab62331) at 1/1000 dilution (Purified)

Lane 1 : HCT 116 (human colorectal carcinoma cell line) whole cell lysate

Lane 2 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate

Lane 3 : U-87 MG (human glioblastoma-astrocytoma epithelial cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (<u>ab97051</u>) at 1/200000 dilution

Predicted band size: 69 kDa Observed band size: 72 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure times

Lane 1 and 2: 5.5 seconds Lane 3: 3.25 seconds

We are unsure as to the identity of the extra band in HCT 116 and MCF7. The expression profile observed in HCT 116 and MCF7 are consistent with the literatures (PMID: 14739610, PMID: 24325753, PMID: 16997132). Negative control: HCT 116 (PMID: 14739610) and MCF7 (PMID:

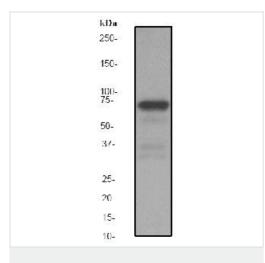
24325753, PMID: 16997132)

Anti-COX2 / Cyclooxygenase 2 antibody [EP1978Y] (ab62331) at 1/500 dilution (unpurified) + Raw264.7 cell lysate (10ug) + LPS

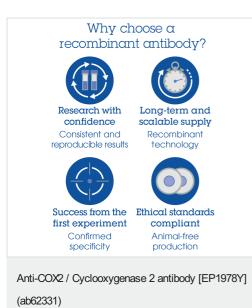
Secondary

Goat anti-Rabbit HRP conjugated at 1/2000 dilution

Predicted band size: 69 kDa Observed band size: 72 kDa



Western blot - Anti-COX2 / Cyclooxygenase 2 antibody [EP1978Y] (ab62331)



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