

### Anti-COX1 / Cyclooxygenase 1 antibody [EPR5867] ab133319

KO 評価済 リコンビナント RabMAb

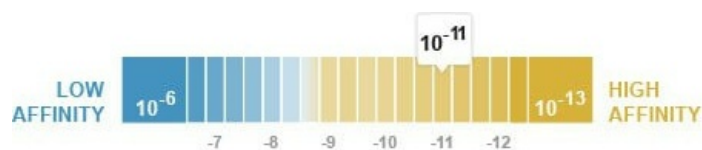
★★★★☆ 1 Abreviews 8 References 画像数 5

#### 製品の概要

製品名	Anti-COX1 / Cyclooxygenase 1 antibody [EPR5867]
製品の詳細	Rabbit monoclonal [EPR5867] to COX1 / Cyclooxygenase 1
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P 適用なし: Flow Cyt, ICC/IF or IP
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide within Human COX1/ Cyclooxygenase 1 aa 500-600. The exact sequence is proprietary.
ポジティブ・コントロール	C2C12, A431, NIH 3T3, Neuro 2a, and L6 cell lysates; Human stomach tissue.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
解離定数 (K <sub>D</sub> 値)	K <sub>D</sub> = 8.00 x 10 <sup>-11</sup> M



[Learn more about K<sub>D</sub>](#)

バッファー	pH: 7.2 Preservative: 0.05% Sodium azide
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	Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR5867
アイソタイプ	IgG

## アプリケーション

**The Abpromise guarantee** Abpromise保証は、 次のテスト済みアプリケーションにおけるab133319の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

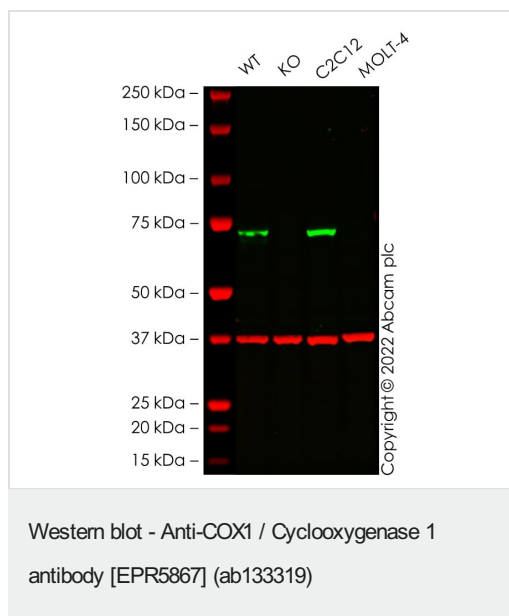
アプリケーション	Abreviews	特記事項
WB	★★★★☆ (1)	1/1000 - 1/10000. Detects a band of approximately 65-70 kDa (predicted molecular weight: 68 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**追加情報** Is unsuitable for Flow Cyt, ICC/IF or IP.

## ターゲット情報

機能	May play an important role in regulating or promoting cell proliferation in some normal and neoplastically transformed cells.
パスウェイ	Lipid metabolism; prostaglandin biosynthesis.
配列類似性	Belongs to the prostaglandin G/H synthase family. Contains 1 EGF-like domain.
細胞内局在	Microsome membrane. Endoplasmic reticulum membrane.

## 画像



**All lanes :** Anti-COX1 / Cyclooxygenase 1 antibody [EPR5867] (ab133319) at 1/1000 dilution

**Lane 1 :** Wild-type A431 cell lysate

**Lane 2 :** PTGS1 knockout A431 cell lysate

**Lane 3 :** C2C12 cell lysate

**Lane 4 :** MOLT-4 cell lysate

Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes :** Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution

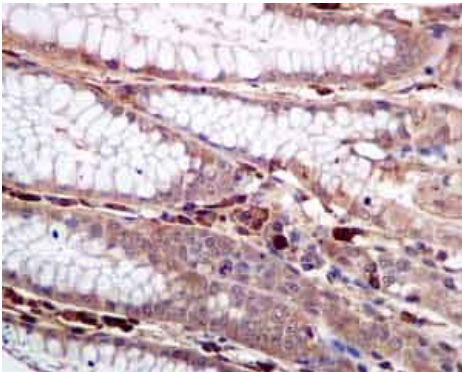
Performed under reducing conditions.

**Predicted band size:** 68 kDa

**Observed band size:** 70 kDa

False colour image of Western blot: Anti-COX1 / Cyclooxygenase 1 antibody [EPR5867] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red.

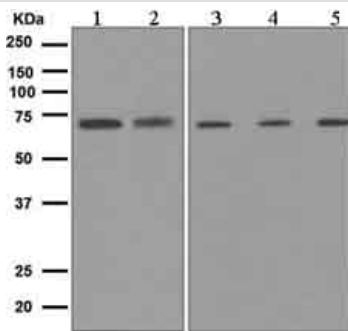
In Western blot, ab133319 was shown to bind specifically to COX1 / Cyclooxygenase 1. A band was observed at 70 kDa in wild-type A431 cell lysates with no signal observed at this size in PTGS1 knockout cell line [ab270477](#) (knockout cell lysate [ab270500](#)). To generate this image, wild-type and PTGS1 knockout A431 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COX1 / Cyclooxygenase 1 antibody [EPR5867] (ab133319)

Immunohistochemical analysis of Paraffin Embedded Human stomach tissue labelling COX1/Cyclooxygenase 1 with ab133319 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-COX1 / Cyclooxygenase 1 antibody [EPR5867] (ab133319)

**All lanes :** Anti-COX1 / Cyclooxygenase 1 antibody [EPR5867] (ab133319) at 1/1000 dilution

**Lane 1 :** C2C12 cell lysate

**Lane 2 :** A431 cell lysate

**Lane 3 :** NIH/3T3 cell lysate

**Lane 4 :** Neuro 2a cell lysate

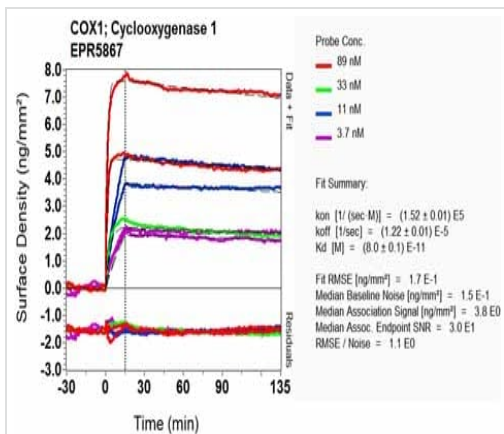
**Lane 5 :** L6 cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat anti-Rabbit HRP at 1/2000 dilution

**Predicted band size:** 68 kDa



OI-RD Scanning - Anti-COX1 / Cyclooxygenase 1  
 antibody [EPR5867] (ab133319)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

Why choose a recombinant antibody?



**Research with confidence**  
 Consistent and reproducible results



**Long-term and scalable supply**  
 Recombinant technology



**Success from the first experiment**  
 Confirmed specificity



**Ethical standards compliant**  
 Animal-free production

Anti-COX1 / Cyclooxygenase 1 antibody [EPR5867]  
 (ab133319)

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

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