

# Anti-Catalase antibody [EP1929Y] - Peroxisome Marker ab76024

KO 評価済 リコンビナント RabMAb

★★★★★ [1 Abreviews](#) [18 References](#) [画像数 7](#)

### 製品の概要

製品名	Anti-Catalase antibody [EP1929Y] - Peroxisome Marker
製品の詳細	Rabbit monoclonal [EP1929Y] to Catalase - Peroxisome Marker
由来種	Rabbit
アプリケーション	<b>適用あり:</b> ICC/IF, WB, IHC-P <b>適用なし:</b> Flow Cyt or IP
種交差性	<b>交差種:</b> Human
免疫原	Synthetic peptide within Human Catalase aa 400-500 (C terminal). The exact sequence is proprietary. Database link: <a href="#">P04040</a> (Peptide available as <a href="#">ab225865</a> )
ポジティブ・コントロール	WB: HeLa cell lysate. IHC-P: human brain tissue, human bladder cancer tissue. ICC/IF: HeLa cells.
特記事項	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> .  Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
精製度	Tissue culture supernatant
ポリ/モノ	モノクローナル
クローン名	EP1929Y
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ab76024の使用に適用されません**  
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。

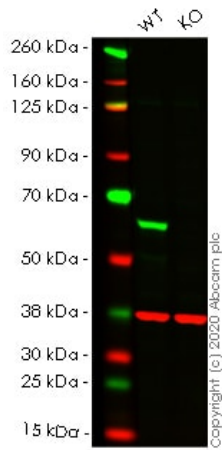
アプリケーション	Abreviews	特記事項
ICC/IF		1/100 - 1/250.
WB	★★★★★ (1)	1/10000 - 1/20000. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa).
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

追加情報 Is unsuitable for Flow Cyt or IP.

## ターゲット情報

機能	Occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. Promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells.
関連疾患	Defects in CAT are the cause of acatalasia (ACATLAS) [MIM:115500]; also known as acatalasemia. This disease is characterized by absence of catalase activity in red cells and is often associated with ulcerating oral lesions.
配列類似性	Belongs to the catalase family.
翻訳後修飾	The N-terminus is blocked.
細胞内局在	Peroxisome.

## 画像



Western blot - Anti-Catalase antibody [EP1929Y] - Peroxisome Marker (ab76024)

**All lanes** : Anti-Catalase antibody [EP1929Y] - Peroxisome Marker (ab76024) at 1/10000 dilution

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

**Lane 2** : CAT knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

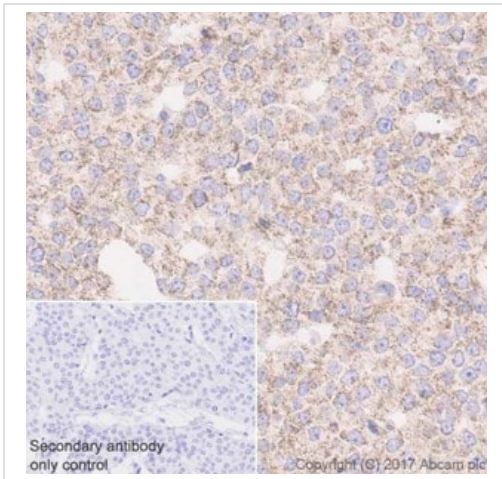
Performed under reducing conditions.

**Predicted band size:** 60 kDa

**Observed band size:** 60 kDa

**Lanes 1-2:** Merged signal (red and green). Green - ab76024 observed at 60 kDa. Red - loading control **ab8245** observed at 37 kDa.

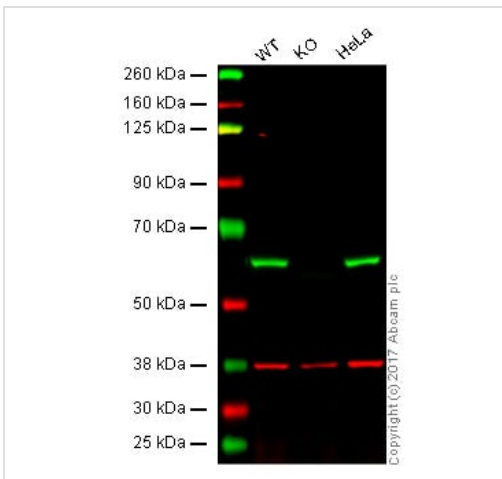
ab76024 Anti-Catalase antibody [EP1929Y] - Peroxisome Marker was shown to specifically react with Catalase in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265250** (knockout cell lysate **ab256859**) was used. Wild-type and Catalase knockout samples were subjected to SDS-PAGE. ab76024 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 10000 and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Catalase antibody [EP1929Y] - Peroxisome Marker (ab76024)

Immunohistochemical analysis of Paraffin-embedded human bladder cancer tissue sections labeling Catalase with ab76024 at 1/1000. Goat Anti-Rabbit IgG H&L (HRP) was used as the secondary antibody. Sections were counterstained with Hematoxylin. Antigen retrieval was heat mediated using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

Granular cytoplasmic staining on human bladder cancer.



Western blot - Anti-Catalase antibody [EP1929Y] - Peroxisome Marker (ab76024)

**All lanes** : Anti-Catalase antibody [EP1929Y] - Peroxisome Marker (ab76024)

**Lane 1** : Wild-type HAP1 whole cell lysate

**Lane 2** : CAT knockout HAP1 whole cell lysate

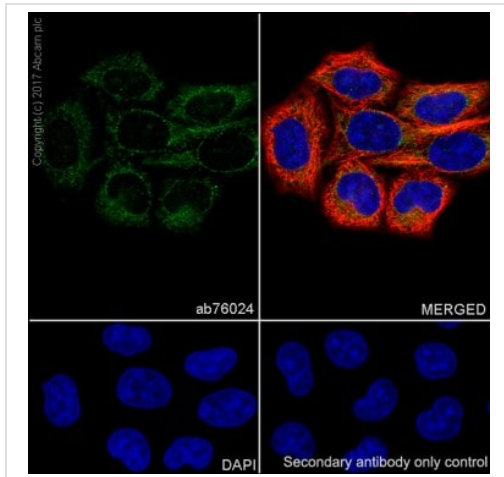
**Lane 3** : HeLa whole cell lysate

Lysates/proteins at 20 µg per lane.

**Predicted band size:** 60 kDa

**Lanes 1 - 3:** Merged signal (red and green). Green - ab76024 observed at 60 kDa. Red - loading control, [ab9484](#), observed at 37 kDa.

ab76024 was shown to specifically react with CAT when CAT knockout samples were used. Wild-type and CAT knockout samples were subjected to SDS-PAGE. Ab76024 and [ab9484](#) (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed [ab216773](#) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed [ab216776](#) secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



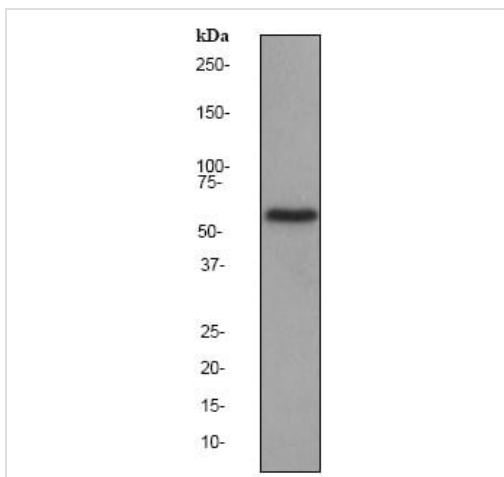
Immunocytochemistry/ Immunofluorescence - Anti-Catalase antibody [EP1929Y] - Peroxisome Marker (ab76024)

Immunocytochemistry/Immunofluorescence analysis of HeLa (human cervix adenocarcinoma epithelial cell) labeling Catalase ab76024 at 1/100. Cells were fixed with 100% Methanol.

**ab150077**, an Alexa Fluor<sup>®</sup> 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

**ab195889**, Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor<sup>®</sup> 594) 1/100 was used as counterstain antibody.

Confocal image showing membranous staining in HeLa cells.



Western blot - Anti-Catalase antibody [EP1929Y] - Peroxisome Marker (ab76024)

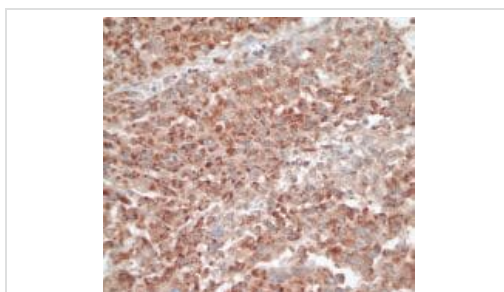
Anti-Catalase antibody [EP1929Y] - Peroxisome Marker (ab76024) at 1/20000 dilution + HeLa cell lysate at 10 µg

**Secondary**

HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 60 kDa

**Observed band size:** 60 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Catalase antibody [EP1929Y] - Peroxisome Marker (ab76024)

Immunohistochemical staining of Catalase in paraffin embedded human normal brain tissue using ab76024 at a 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

### 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-Catalase antibody [EP1929Y] - Peroxisome Marker (ab76024)

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

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