abcam

Product datasheet

Anti-Heme Oxygenase 1 antibody [EPR18161-128] - BSA and Azide free ab224677

敲除验证 重组 RabMAb

10 图像

概述

产品名称	Anti-Heme Oxygenase 1抗体[EPR18161-128] - BSA and Azide free
描述	兔单克隆抗体[EPR18161-128] to Heme Oxygenase 1 - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, IP, WB, IHC-P, Flow Cyt (Intra)
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human liver tissue.
常规说明	ab224677 is the carrier-free version of **ab189491**.

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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 **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR18161-128
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab224677于以下的经测试应用

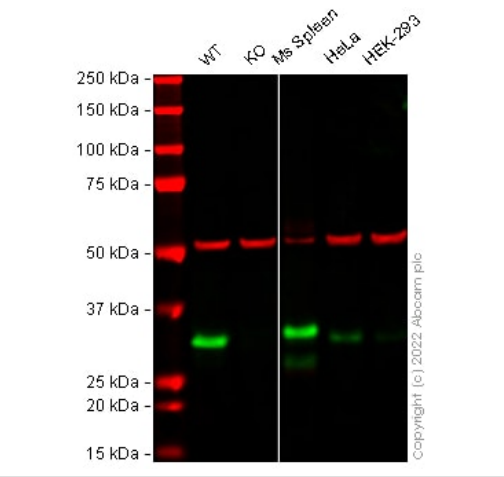
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 33 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use at an assay dependent concentration.

靶标

功能	Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestrated and destroyed.
序列相似性	Belongs to the heme oxygenase family.
细胞定位	Microsome. Endoplasmic reticulum.

图片



Western blot - Anti-Heme Oxygenase 1 antibody [EPR18161-128] - BSA and Azide free (ab224677)

All lanes : Anti-Heme Oxygenase 1 antibody [EPR18161-128] (**ab189491**) at 1/2000 dilution

Lane 1 : Wild-type A549 cell lysate
Lane 2 : HMOX1 knockout A549 cell lysate
Lane 3 : Mouse Spleen cell lysate
Lane 4 : HeLa cell lysate
Lane 5 : HEK-293 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

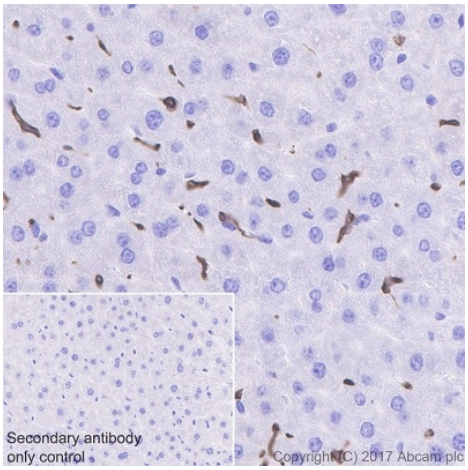
Performed under reducing conditions.

Predicted band size: 33 kDa
Observed band size: 32 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab189491**).

False colour image of Western blot: Anti-Heme Oxygenase 1 antibody [EPR18161-128] staining at 1/2000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] (**ab7291**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab189491** was shown to bind specifically to Heme Oxygenase 1. A band was observed at 32 kDa in wild-type A549 cell lysates with no signal observed at this size in HMOX1 knockout cell line **ab269503** (HMOX knockout A549 lysate **ab259782**).

To generate this image, wild-type and HMOX1 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 5 % 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.

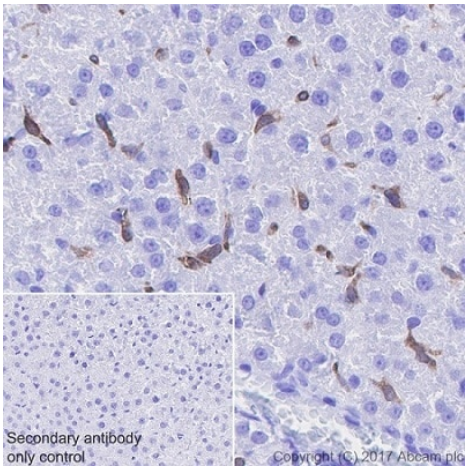


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Heme Oxygenase 1 antibody [EPR18161-128] - BSA and Azide free (ab224677)

Immunohistochemical analysis of paraffin embedded mouse liver tissue labeling Heme Oxygenase 1 with **ab189491** at 1/20000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on Kupffer cells of mouse liver (PMID: 9449694) is observed. Counter stained with hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab189491**).

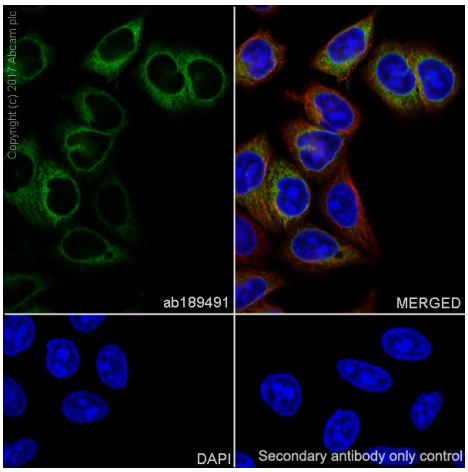


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Heme Oxygenase 1 antibody [EPR18161-128] - BSA and Azide free (ab224677)

Immunohistochemical analysis of paraffin embedded rat liver tissue labeling Heme Oxygenase 1 with **ab189491** at 1/20,000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on Kupffer cells of rat liver (PMID: 9449694) is observed. Counter stained with hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

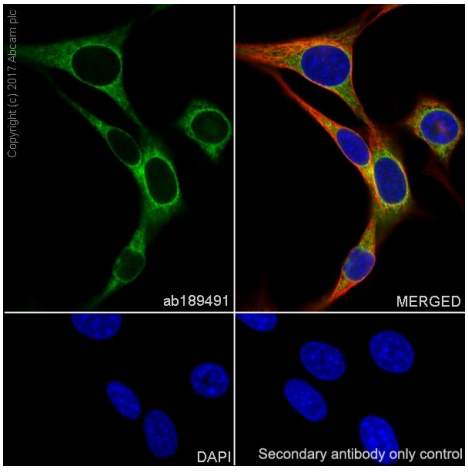
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab189491**).



Immunocytochemistry/ Immunofluorescence - Anti-Heme Oxygenase 1 antibody [EPR18161-128] - BSA and Azide free (ab224677)

Immunofluorescent analysis of 4% paraformaldehyde fixed, 0.1% Triton X-100 permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labeling Heme Oxygenase 1 with **ab189491** at 1/250 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on HeLa cells. Details of counterstains: **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at a 1/200 dilution; DAPI for nuclei.
The negative controls are as follows: Secondary antibody only for control.

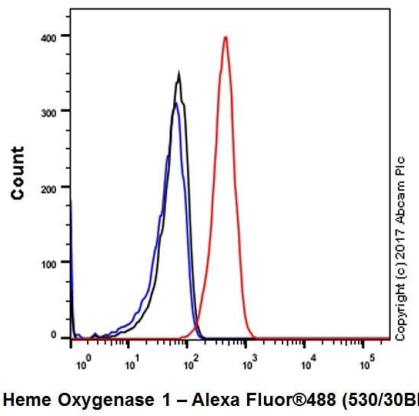
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab189491**).



Immunocytochemistry/ Immunofluorescence - Anti-Heme Oxygenase 1 antibody [EPR18161-128] - BSA and Azide free (ab224677)

Immunofluorescent analysis of 4% paraformaldehyde fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labeling Heme Oxygenase 1 with **ab189491** at 1/250 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on NIH/3T3 cells. Details of counterstains: **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at a 1/200 dilution; DAPI for nuclei.
The negative controls are as follows: Secondary antibody only for control.

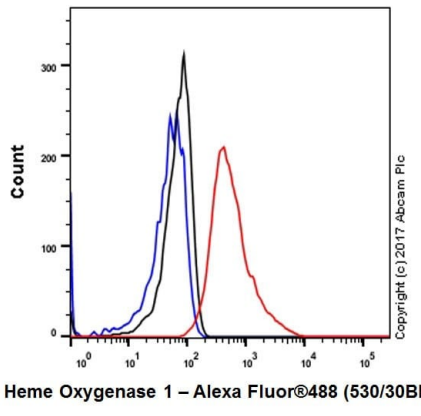
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab189491**).



Flow Cytometry (Intracellular) - Anti-Heme Oxygenase 1 antibody [EPR18161-128] - BSA and Azide free (ab224677)

Intracellular flow cytometric analysis of 90% methanol/ 4% paraformaldehyde fixed NIH/3T3 (mouse embryonic fibroblast) cell line labeling Heme Oxygenase 1 with **ab189491** at 1/50 (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**), at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab189491**).



Flow Cytometry (Intracellular) - Anti-Heme Oxygenase 1 antibody [EPR18161-128] - BSA and Azide free (ab224677)

Intracellular flow cytometric analysis of 90% methanol/4% paraformaldehyde fixed HeLa (human cervix adenocarcinoma epithelial cell) cell line labeling Heme Oxygenase 1 with **ab189491** at 1/50 (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**), at 1/2000 dilution was used as the secondary antibody.

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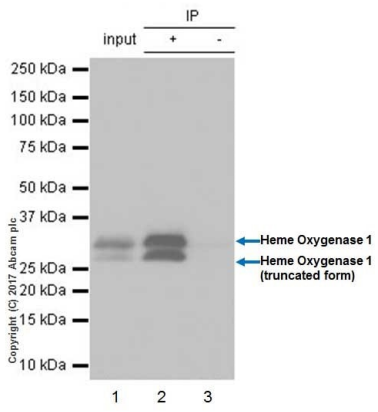


Immunoprecipitation - Anti-Heme Oxygenase 1 antibody [EPR18161-128] - BSA and Azide free (ab224677)

Heme Oxygenase 1 was immunoprecipitated from 0.35 mg of NIH/3T3 (mouse embryonic fibroblast) whole cell lysate with **ab189491** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab189491** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10,000 dilution.

Lane 1: NIH/3T3 (mouse embryonic fibroblast) whole cell lysate 10 µg (Input).

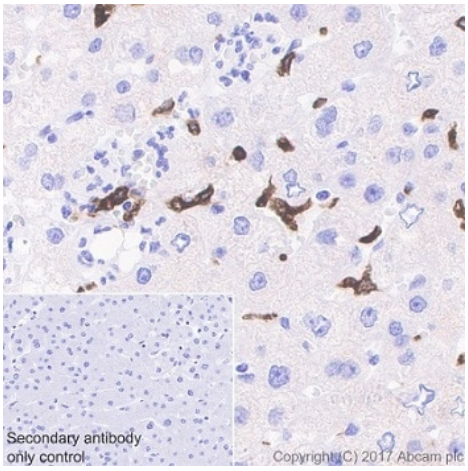
Lane 2: NIH/3T3 whole cell lysate (+).

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab189491** in NIH/3T3 whole cell lysate (-).

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

The truncated form of Heme Oxygenase 1 is described in the literature (PMID: 17430897).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab189491**).

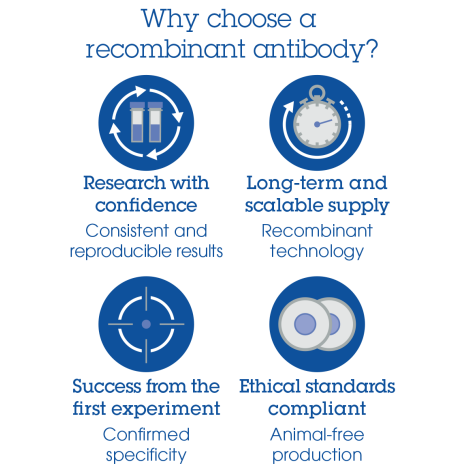


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Heme Oxygenase 1 antibody [EPR18161-128] - BSA and Azide free (ab224677)

Immunohistochemical analysis of paraffin embedded human liver tissue labeling Heme Oxygenase 1 with **ab189491** at 1/20000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on Kupffer cells of human liver (PMID: 9449694) is observed. Counter stained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab189491**).



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