abcam

Product datasheet

Anti-Heme Oxygenase 1 antibody [EPR1390Y] ab68477

敲除验证 重组 RabMAb

★★★★★ 5 Abreviews 158 References 8 图像

概述

产品名称	Anti-Heme Oxygenase 1抗体[EPR1390Y]
描述	兔单克隆抗体[EPR1390Y] to Heme Oxygenase 1
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), ICC/IF, WB, IP **不适用于:** IHC-P
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HepG2, A549, rat kidney, rat spleen, mouse kidney cell lysate.
常规说明	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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR1390Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab68477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
Flow Cyt (Intra)		Use at an assay dependent concentration. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	1/100 - 1/250.
WB	★★★★★ (4)	1/1000 - 1/20000. Detects a band of approximately 33 kDa (predicted molecular weight: 33 kDa).
IP		1/20.

应用说明 Is unsuitable for IHC-P.

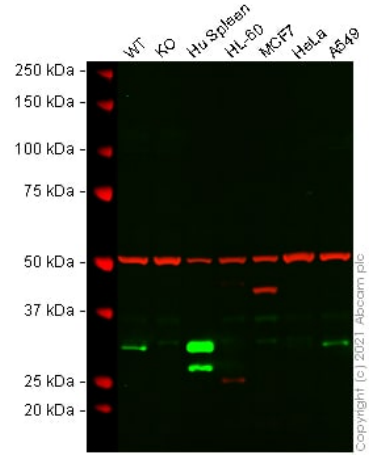
靶标

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 [EPR1390Y] (ab68477)

All lanes : Anti-Heme Oxygenase 1 antibody [EPR1390Y] (ab68477) at 1/10000 dilution

Lane 1 : Wild-type A549 cell lysate
Lane 2 : HMOX1 knockout A549 cell lysate
Lane 3 : Human Spleen tissue lysate
Lane 4 : HL-60 cell lysate
Lane 5 : MCF7 cell lysate
Lane 6 : HeLa cell lysate
Lane 7 : A549 cell lysate

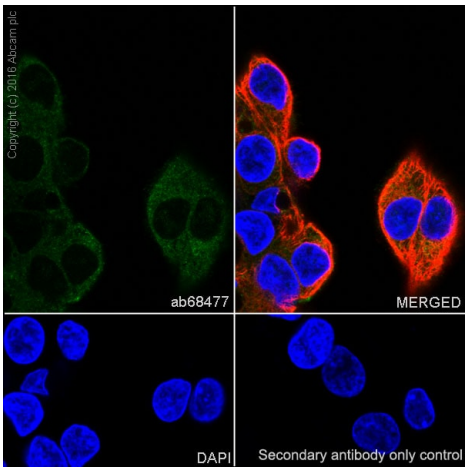
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

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

Lanes 1 - 7: Merged signal (red and green). Green - ab68477 observed at 33 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

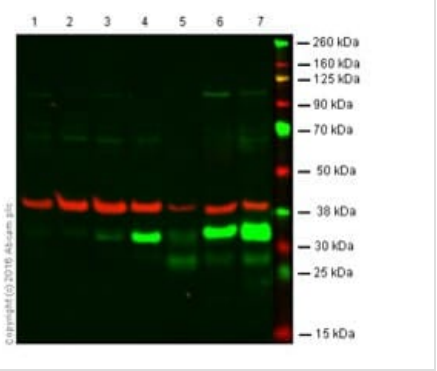
ab68477 was shown to react with Heme Oxygenase 1 in wild-type A549 cells in Western blot with loss of signal observed in HMOX1 knockout cell line **ab269503** (knockout cell lysate **ab269665**). Wild-type A549 and HMOX1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with ab68477 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were incubated 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 in 20000 dilution for 1 h at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Heme Oxygenase 1 antibody [EPR1390Y] (ab68477)

Immunocytochemistry/Immunofluorescence analysis of HepG2 (Human liver hepatocellular carcinoma cell line) cells labeling Heme Oxygenase 1 with purified ab68477 at 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. A goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a dilution of 1/1000. DAPI was used as a nuclear counterstain.

Negative control 1: PBS only.



Western blot - Anti-Heme Oxygenase 1 antibody [EPR1390Y] (ab68477)

All lanes : Anti-Heme Oxygenase 1 antibody [EPR1390Y] (ab68477) at 1/1000 dilution

Lane 1 : Hek293
Lane 2 : HL60
Lane 3 : HeLa
Lane 4 : A549
Lane 5 : Hu spleen
Lane 6 : Ms spleen
Lane 7 : Rt spleen

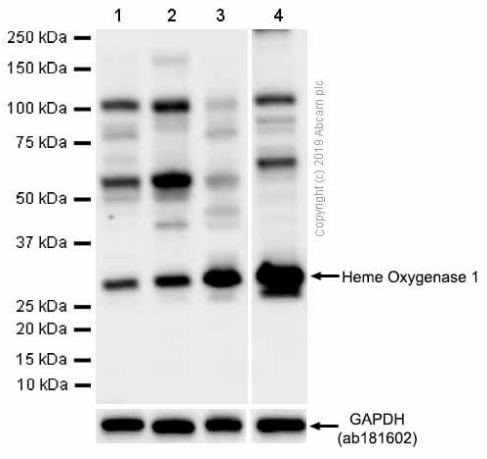
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : IRDye® 800CW Goat anti Rabbit

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

Hek293 & HL60 presumed negative or very low expression.

Loading control GAPDH at 38kDa



Western blot - Anti-Heme Oxygenase 1 antibody [EPR1390Y] (ab68477)

All lanes : Anti-Heme Oxygenase 1 antibody [EPR1390Y] (ab68477) at 1/1000 dilution

Lane 1 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysates with 5% NFDM/TBST
Lane 2 : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysates with 5% NFDM/TBST
Lane 3 : A549 (Human lung carcinoma epithelial cell) whole cell lysates with 5% NFDM/TBST
Lane 4 : Mouse spleen lysates with 5% NFDM/TBST

Lysates/proteins at 20 µg per lane.

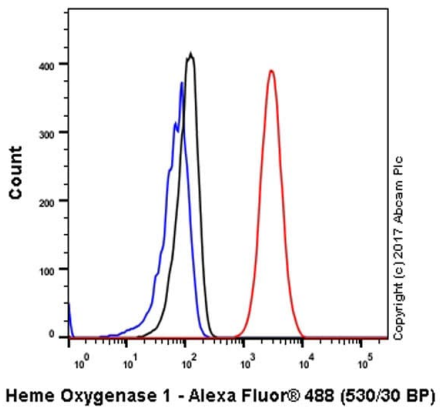
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

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

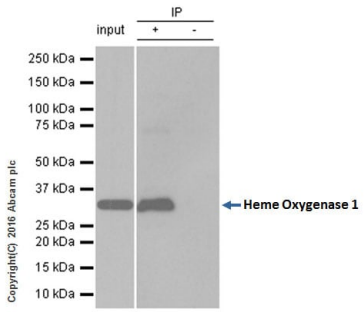
Exposure time: 10 seconds

We are unsure how to define the extra bands.



Flow Cytometry (Intracellular) - Anti-Heme Oxygenase 1 antibody [EPR1390Y] (ab68477)

Intracellular Flow Cytometry analysis of A549 (human lung carcinoma) cells labeling with purified ab68477 at 1/200 dilution (1ug/ml) (Red). Cells were fixed with4% paraformaldehydeand permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) (1/2000 dilution) was used as the secondary antibody.Rabbit monoclonal IgG (Black) (**ab172730**) was used as a isotype control.Cell without incubation with primary antibody and secondary antibody (Blue) were used as unlabeled control.



Immunoprecipitation - Anti-Heme Oxygenase 1 antibody [EPR1390Y] (ab68477)

ab68477 (purified) at 1/20 immunoprecipitating Heme Oxygenase 1 in A549 (Human lung carcinoma cell line) whole cell lysate.

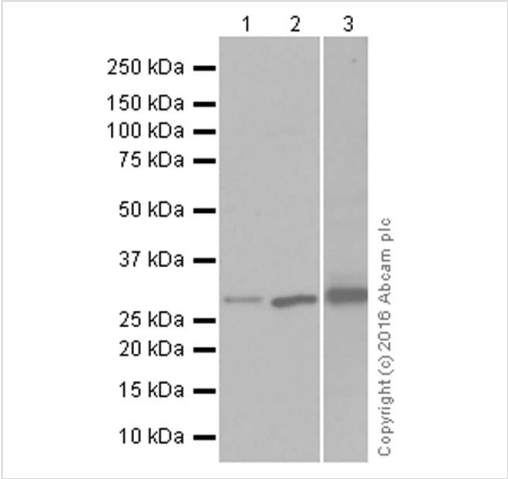
Lane 1 (input): A549 whole cell lysate (10ug).

Lane 2 (+): ab68477 + A549 whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab133267** in HeLa whole cell lysate.

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-Heme Oxygenase 1 antibody [EPR1390Y] (ab68477)

All lanes : Anti-Heme Oxygenase 1 antibody [EPR1390Y] (ab68477) at 1/20000 dilution (purified)

Lane 1 : Rat kidney lysate

Lane 2 : Rat spleen lysate

Lane 3 : Mouse kidney lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 33 kDa

Observed band size: 33 kDa

Blocking and dilution buffer: 5% NFDM/TBST

Anti-Heme Oxygenase 1 antibody [EPR1390Y] (ab68477)

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