abcam

Product datasheet

Anti-Catalase antibody ab88067

敲除验证

4 图像

概述

产品名称	Anti-Catalase抗体
描述	小鼠单克隆抗体to Catalase
宿主	Mouse
经测试应用	**适用于:** WB, ELISA, Flow Cyt
种属反应性	**与反应:** Human
免疫原	Recombinant fragment, corresponding to amino acids 1-101 of Human Catalase with a 26 kDa tag
阳性对照	HepG2 cell lysate

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: None Constituents: 1X PBS, pH 7.2
纯度	Protein A purified
克隆	单克隆
同种型	IgG2a
轻链类型	kappa

应用

Our Abpromise guarantee covers the use of **ab88067** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

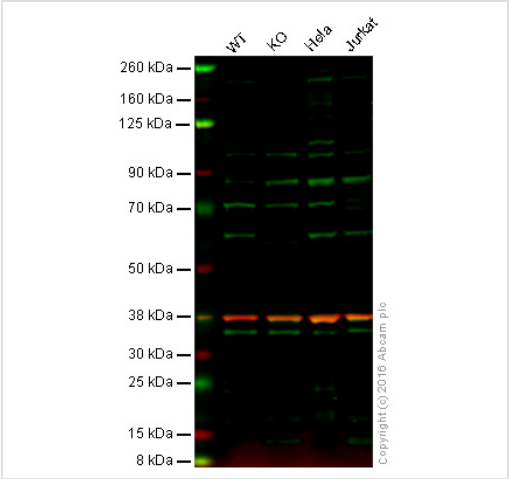
应用	Ab评论	说明
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 60 kDa.

应用	Ab评论	说明
ELISA		Use at an assay dependent concentration.
Flow Cyt		Use 1µg for 10^6 cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

靶标

功能	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.
疾病相关	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.
序列相似性	Belongs to the catalase family.
翻译后修饰	The N-terminus is blocked.
细胞定位	Peroxisome.

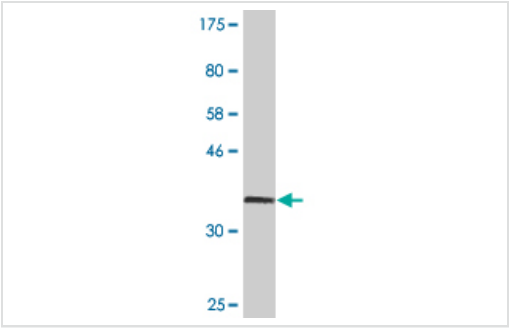
图片



Western blot - Anti-Catalase antibody (ab88067)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: Catalase knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lane 4: Jurkat cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab88067 observed at 60 kDa. Red - loading control, ab181602, observed at 37 kDa.
ab88067 was shown to recognize Catalase when Catalase knockout samples were used, along with additional cross-reactive bands. Wild-type and Catalase knockout samples were subjected to SDS-PAGE. ab88067 and ab181602 (loading control to GAPDH) were diluted at 1 µg/mL and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed ab216772 and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed ab216777 secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

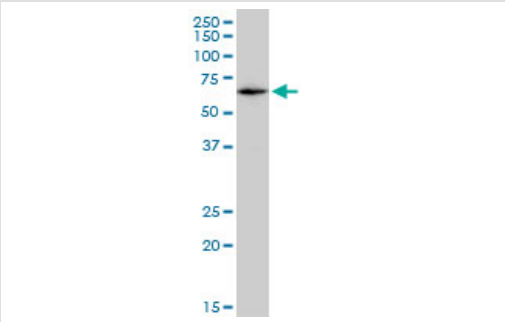


Western blot - Anti-Catalase antibody (ab88067)

Anti-Catalase antibody (ab88067) at 1 µg/ml + immunogen (recombinant fragment) at 0.2 µg

Secondary
Goat anti-mouse IgG at 1/5000 dilution

Predicted band size: 60 kDa



Western blot - Anti-Catalase antibody (ab88067)

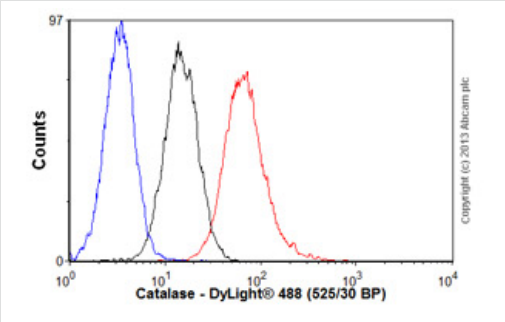
Anti-Catalase antibody (ab88067) at 1 µg/ml + HepG2 cell lysate at 50 µg

Secondary

Goat anti mouse IgG at 1/5000 dilution

Predicted band size: 60 kDa

Observed band size: 60 kDa



Flow Cytometry - Anti-Catalase antibody (ab88067)

Overlay histogram showing HeLa cells stained with ab88067 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab88067, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (ab91361, 1µg/1x10^6 cells) used under the same conditions. Unlabelled sample (blue line). Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

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