

Anti-Catalase antibody [12C2DB9] - Peroxisome Marker ab110292

KO 評価済

★★★★★ [3 Abreviews](#) [3 References](#) [画像数 4](#)

製品の概要

製品名	Anti-Catalase antibody [12C2DB9] - Peroxisome Marker
製品の詳細	Mouse monoclonal [12C2DB9] to Catalase - Peroxisome Marker
由来種	Mouse
アプリケーション	適用あり: ICC, IP, Flow Cyt
種交差性	交差種: Rat, Cow, Human
免疫原	Tissue, cells or virus. This information is considered to be commercially sensitive.
ポジティブ・コントロール	HeLa cells, HepG2 cells, HL60 cells, Cow heart, Rat liver Flow cyt: HAP1-WT cells.
特記事項	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	<p>pH: 7.5</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: HEPES buffered saline</p>
精製度	Ammonium Sulphate Precipitation
特記事項 (精製)	Purity near homogeneity as judge by SDS-PAGE. The antibody was produced in-vitro using

	hybridomas grown in serum-free medium and then purified by biochemical fractionation.
ポリ/モノ	モノクローナル
クローン名	12C2DB9
アイソタイプ	IgG1
軽鎖の種類	kappa

アプリケーション

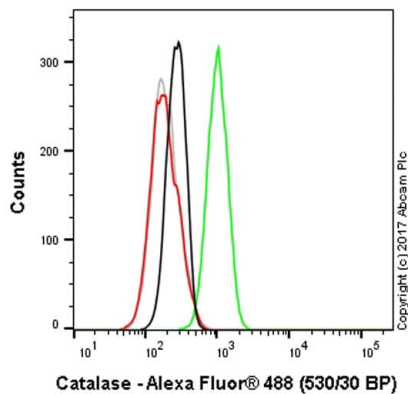
The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab110292の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC	★★★★★ (1)	Use a concentration of 5 µg/ml.
IP		Use at an assay dependent concentration.
Flow Cyt		Use a concentration of 1 µg/ml. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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

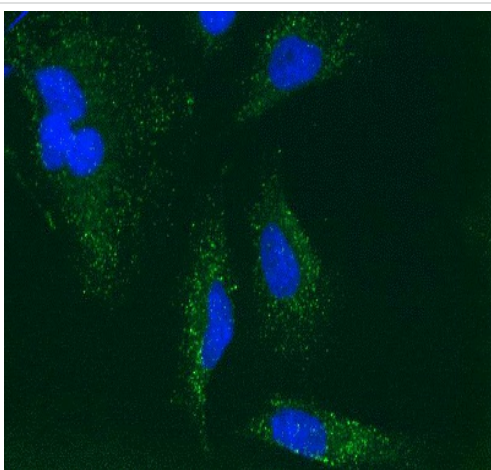


Flow Cytometry - Anti-Catalase antibody [12C2DB9]
- Peroxisome Marker (ab110292)

Overlay histogram showing HAP1 wildtype (green line) and HAP1-CAT knockout cells (red line) stained with ab110292. The cells were fixed with 4% formaldehyde (10 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab110292, 1 µg/ml) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) presorbed (**ab150117**) at 1/2000 dilution for 30 min at 22°C.

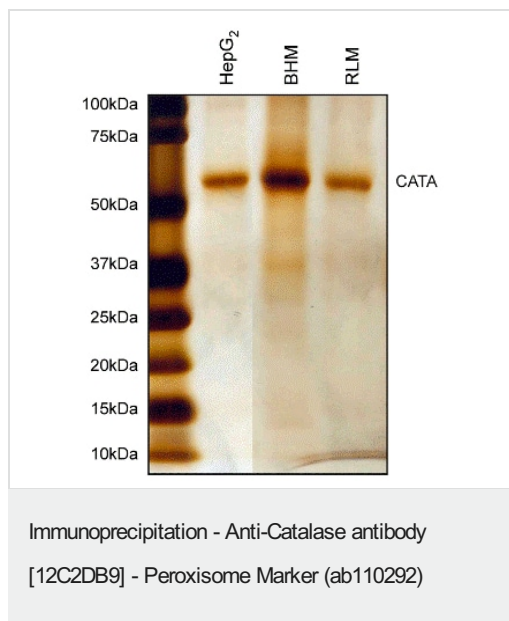
A mouse IgG1 isotype control antibody (**ab170190**) was used at the same concentration and conditions as the primary antibody (HAP1 wildtype - black line, HAP1-CAT knockout - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity).

Acquisition of >5,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter.



Immunocytochemistry - Anti-Catalase antibody
[12C2DB9] - Peroxisome Marker (ab110292)

Immunocytochemical staining of Human HeLa cells. The cells were paraformaldehyde fixed (4%, 20 minutes) and Triton X-100 permeabilized (0.1%, 15 minutes). The cells were incubated with the ab110292 (5 µg/ml) for 2 hours at room temperature or overnight at 4°C. The secondary antibody, Alexa Fluor® 488 goat anti-mouse IgG (green), was used at a 1/1000 dilution for 1 hour. 10% Goat serum was used as the blocking agent for all blocking steps. DAPI was used to stain the cell nuclei (blue). The target protein locates mainly in peroxisomes.



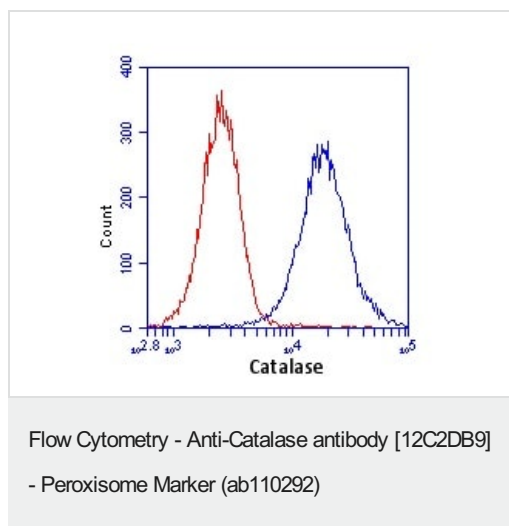
Immunoprecipitation of Catalase using ab110292 from:

Lane 1: HepG2 cells

Lane 2: Cow heart sample

Lane 3: Rat liver sample

Predicted band size is 60 kDa.



Flow cytometric analysis of HL-60 cells using ab110292 at 1 µg/mL, (blue) or an isotype control (red).

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