

Anti-ATP5A antibody [7H10BD4F9] ab110273

★★★★★ [7 Abreviews](#) [76 References](#) [画像数 3](#)

製品の概要

製品名	Anti-ATP5A antibody [7H10BD4F9]
製品の詳細	Mouse monoclonal [7H10BD4F9] to ATP5A
由来種	Mouse
アプリケーション	適用あり: WB, ICC/IF, Flow Cyt
種交差性	交差種: Mouse, Rat, Cow, Human
免疫原	Full length protein corresponding to Cow ATP5A.
ポジティブ・コントロール	Isolated mitochondria from Human, Rat, Bovine and Mouse Heart, and HepG2, Cultured Human embryonic lung-derived fibroblasts (strain MRC5), HL-60 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	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline
精製度	IgG fraction
特記事項 (精製)	Near homogeneity as judged by SDS-PAGE. ab110273 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	7H10BD4F9
アイソタイプ	IgG2b
軽鎖の種類	kappa

アプリケーション

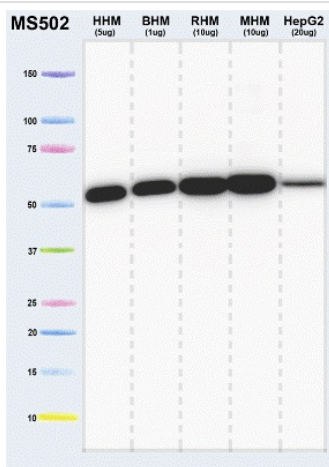
The Abpromise guarantee **Abpromise保証は、**次のテスト済みアプリケーションにおけるab110273の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (6)	Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 60 kDa.
ICC/IF	★★★★★ (1)	Use a concentration of 5 µg/ml.
Flow Cyt		Use a concentration of 1 µg/ml. ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

ターゲット情報

機能	Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F(1). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits. Subunit alpha does not bear the catalytic high-affinity ATP-binding sites.
組織特異性	Fetal lung, heart, liver, gut and kidney. Expressed at higher levels in the fetal brain, retina and spinal cord.
配列類似性	Belongs to the ATPase alpha/beta chains family.
翻訳後修飾	The N-terminus is blocked.
細胞内局在	Mitochondrion inner membrane. Peripheral membrane protein.

画像



Western blot - Anti-ATP5A antibody [7H10BD4F9] (ab110273)

All lanes : Anti-ATP5A antibody [7H10BD4F9] (ab110273) at 1 $\mu\text{g/ml}$

Lane 1 : Human heart mitochondria at 5 μg

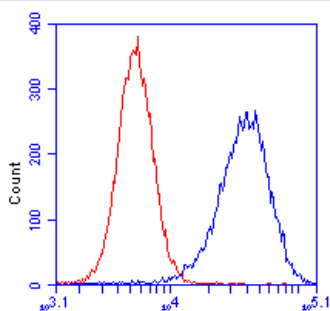
Lane 2 : Bovine heart mitochondria at 1 μg

Lane 3 : Rat heart mitochondria at 10 μg

Lane 4 : Mouse heart mitochondria at 10 μg

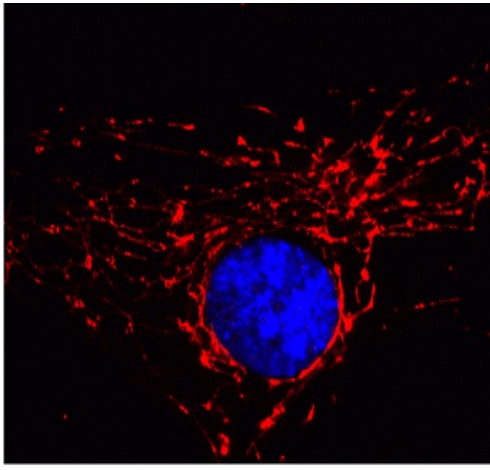
Lane 5 : HepG2 mitochondria at 20 μg

Predicted band size: 60 kDa



Flow Cytometry - Anti-ATP5A antibody [7H10BD4F9] (ab110273)

HL-60 cells were stained with 1 $\mu\text{g/mL}$ ab110273 (blue) or an equal amount of an isotype control antibody (red) and analyzed by flow cytometry.



Immunocytochemistry/ Immunofluorescence - Anti-ATP5A antibody [7H10BD4F9] (ab110273)

Mitochondrial localization of ATP5A. Cultured Human embryonic lung-derived fibroblasts (strain MRC5) were fixed, permeabilized and then labeled with ab110273 (2 µg/ml) followed by an Alexa Fluor® 594-conjugated-goat-anti-mouse IgG2b isotype specific secondary antibody (2 µg/ml).

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