

# Anti-ATP synthase Immunocapture antibody [12F4AD8AF8] ab109867

★★★★★ [3 Abreviews](#) [19 References](#) [1 图像](#)

### 概述

产品名称	Anti-ATP synthase Immunocapture抗体[12F4AD8AF8]
描述	小鼠单克隆抗体[12F4AD8AF8] to ATP synthase Immunocapture
宿主	Mouse
经测试应用	<b>适用于:</b> Flow Cyt <b>不适用于:</b> ICC or WB
种属反应性	<b>与反应:</b> Human
免疫原	Full length protein. This information is considered to be commercially sensitive.
阳性对照	Bovine heart mitochondria <a href="#">ab110338</a>
常规说明	<p>ab109867 is a sample of pure immunocapture antibody, not immobilized to a solid support. This antibody was tested and confirmed not suitable for WB and ICC.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</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&amp;As</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p>

### 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: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline

纯化说明	The purity of ab109867 is near homogeneity, as judged by SDS-PAGE. The antibody was produced in vitro using hybridomas grown in serum free medium, and then purified by biochemical fractionation.
Primary antibody说明	ab109867 is a sample of pure immunocapture antibody, not immobilized to a solid support.
克隆	单克隆
克隆编号	12F4AD8AF8
同种型	IgG2b
轻链类型	kappa

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab109867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。

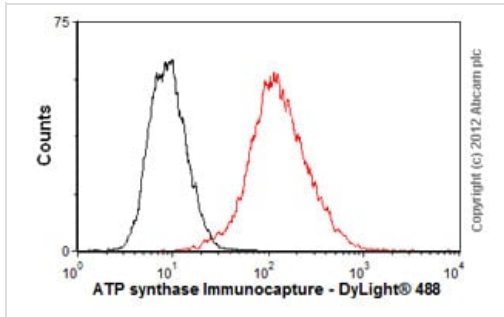
应用	Ab评论	说明
Flow Cyt		Use 1µg for 10 <sup>6</sup> cells. <b>ab170192</b> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

应用说明      Is unsuitable for ICC or WB.

## 靶标

**相关性**      Complex V, also called F1F0ATPase or ATP synthase, is responsible for ATP production in oxidative phosphorylation and can work in reverse as a proton pumping ATPase. The enzyme was thought to be localized exclusively to mitochondria. However, it has recently been identified on the plasma membrane of several cell types including hepatocytes where it functions as the HDL receptor, on endothelial cells where it may act as the angiostatin receptor, and on the surface of cancer cells. The enzyme in mammals is composed of 17 subunits, five of which make up the easily detached F1. The remainder subunits are components of two stalk domains and the proton pumping F0 part of the machinery. Two of the subunits of the F0 part are encoded on mitochondrial DNA while the other subunits are nuclear encoded. Mutations in the mitochondrial-encoded subunits of ATP synthase (Complex V) cause OXPHOS disease.

## 图片



Flow Cytometry - Anti-ATP synthase

Immunocapture antibody [12F4AD8AF8] (ab109867)

Overlay histogram showing HepG2 cells stained with ab109867 (red line). The cells were fixed with 4% paraformaldehyde (10 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 (ab109867, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (**ab91366**, 2µg/1x10<sup>6</sup> cells) used under the same conditions.

Acquisition of >5,000 events was performed. This antibody gave a positive signal in HepG2 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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