

# Anti-Adenine Nucleotide Translocase Immunocapture antibody [5F51BB5AG7] ab109864

**5 References**   [画像数 2](#)

### 製品の概要

製品名	Anti-Adenine Nucleotide Translocase Immunocapture antibody [5F51BB5AG7]
製品の詳細	Mouse monoclonal [5F51BB5AG7] to Adenine Nucleotide Translocase Immunocapture
由来種	Mouse
アプリケーション	<b>適用あり:</b> IP, IHC-P
種交差性	<b>交差種:</b> Cow, Human
免疫原	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	Bovine and Human heart mitochondria This antibody gave a positive result in IHC in the following FFPE tissue: Human normal heart muscle.
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 <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>

### 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>
特記事項 (精製)	ab109864 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	5F51BB5AG7
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ab109864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
IP		Use at 100 µg/mg of lysate.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

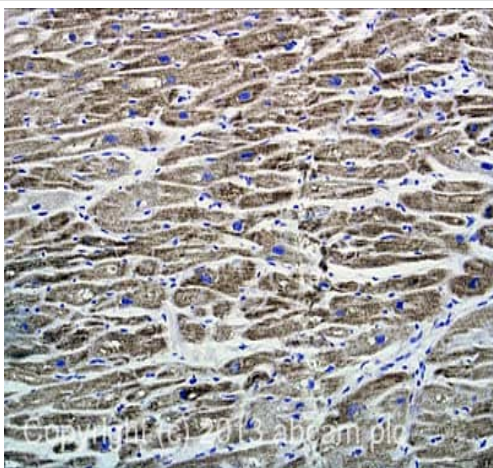
## ターゲット情報

**関連性**

ANT is a reversible transporter of ATP and ADP. During oxidative phosphorylation (OXPHOS) the protein exchanges ATP out for ADP in, however, in the absence of OXPHOS ANT works in reverse to maintain mitochondrial membrane potential. A subset of patients with heart related diseases have been shown to harbor mutations in the ANT gene or to develop an autoimmune reaction against the protein. There are a number of proteins found in mitochondria that, under circumstances favoring apoptosis, coalesce to form the so-called permeability transition pore. The proteins identified as a part of the PTP include cytosolic hexokinase, outer membrane porin (also called the voltage dependent anion channel or VDAC), adenylate cyclase in the intermembrane space, the adenine nucleotide transporter (ANT) and the peripheral benzodiazepine receptor protein of the inner membrane along with cyclophilin D of the matrix space. Hexokinase, porin and ANT all occur as isoforms and it remains to be determined whether there is specificity of these different forms for the PTP.

**細胞内局在**      Mitochondrial

## 画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenine Nucleotide Translocase Immunocapture antibody [5F51BB5AG7] (ab109864)

IHC image of Adenine Nucleotide Translocase staining in Human normal heart muscle formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab109864, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunoprecipitation - Anti-Adenine Nucleotide Translocase Immunocapture antibody [5F51BB5AG7] (ab109864)

Immunoprecipitation of Adenine Nucleotide Translocase from Bovine heart mitochondria using ab109864 at a concentration of 100 µg/mg lysate.

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