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Product datasheet

Anti-NCX1 antibody [C2C12] ab2869

★★★★★ 4 Abreviews 29 References 画像数 4

製品の概要

製品名	Anti-NCX1 antibody [C2C12]
製品の詳細	Mouse monoclonal [C2C12] to NCX1
由来種	Mouse
アプリケーション	**適用あり:** Flow Cyt (Intra), IHC-P, IHC-Fr
種交差性	**交差種:** Human **交差が予測される動物種:** Mouse, Rat, Rabbit, Guinea pig, Dog, Pig
免疫原	Full length native protein (purified) corresponding to Dog NCX1. Purified from canine cardiac sodium/calcium exchanger.
エピトープ	This antibody recognizes an epitope between amino acids 371-525 on the intracellular side of the plasma membrane.
ポジティブ・コントロール	IHC-P: Normal human kidney tissue. IHC-Fr: Normal human kidney tissue
特記事項	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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. 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

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
一次抗体 備考	The sodium/calcium exchanger of cardiac sarcolemma rapidly transports calcium during excitation-contraction coupling and is the dominant myocardial calcium efflux mechanism. The

	sodium/calcium exchanger uses the transmembrane sodium gradient to catalyze countertransport of calcium against its electrochemical gradient in a 3 sodium : 1 calcium exchange. Sodium/calcium exchange activity is present in excitable cells and in non-excitable cells.
ポリ/モノ	モノクローナル
クローン名	C2C12
アイソタイプ	IgM

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ab2869の使用に適用されます

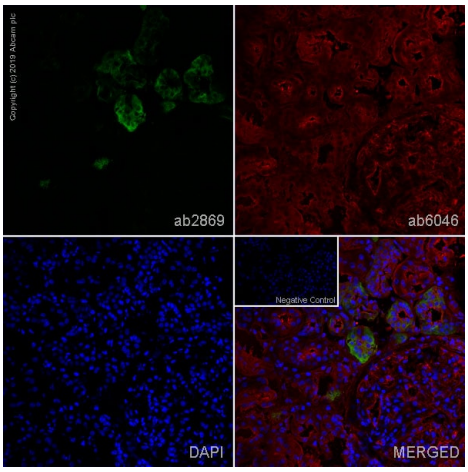
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/20 - 1/100. **ab91545** - Mouse monoclonal IgM, is suitable for use as an isotype control with this antibody.
IHC-P	★★★★★ (2)	Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IHC-Fr	★★★★★ (1)	Use a concentration of 1 µg/ml. PubMed: 21408028

ターゲット情報

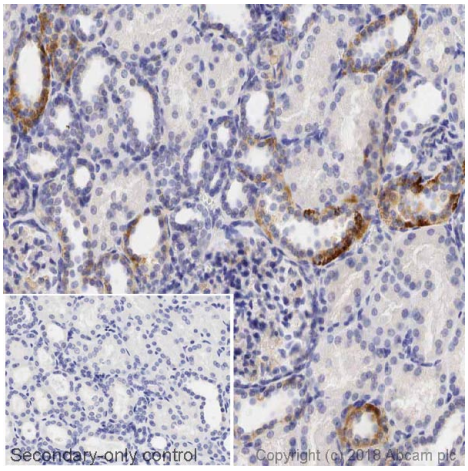
機能	Rapidly transports Ca(2+) during excitation-contraction coupling. Ca(2+) is extruded from the cell during relaxation so as to prevent overloading of intracellular stores.
組織特異性	Expressed in cardiac sarcolemma, brain, kidney, liver, pancreas, skeletal muscle, placenta and lung.
配列類似性	Belongs to the sodium/potassium/calcium exchanger family. SLC8 subfamily. Contains 2 Calx-beta domains.
細胞内局在	Cell membrane.

画像



Immunohistochemistry (Frozen sections) - Anti-NCX1 antibody [C2C12] (ab2869)

IHC image of NCX1 staining in a section of frozen normal human kidney*. The section was fixed using 10% formaldehyde in 1XPBS for 10 minutes. No antigen retrieval step was performed prior to staining. Non-specific protein-protein interactions were then blocked in TBS containing 0.025% (v/v) Triton X-100, 0.3M glycine and 1% (w/v) BSA for 1h at room temperature. The section was then incubated overnight at +4°C in TBS containing 0.025% (v/v) Triton X-100 and 1% (w/v) BSA with ab2869 at 1µg/ml and **ab6046** (Rabbit polyclonal to beta Tubulin - Loading Control) at 1/1000. The section was then incubated with **ab150117** (Goat Anti-Mouse IgG H&L (Alexa Fluor® 488), 1/1000)) (shown in green) and **ab150080** Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594), 1/1000) (shown in red) for 1 hour at room temperature. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. The secondary-only control insert image is taken from an identical assay without primary antibody. The section was then mounted using Fluoromount®. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). For IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antibody concentrations and incubation times. *Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.

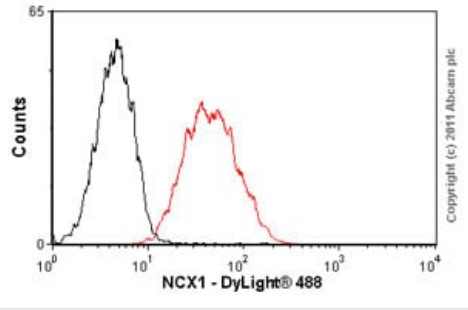


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NCX1 antibody [C2C12] (ab2869)

IHC image of NCX1 staining in a section of formalin-fixed paraffin-embedded normal human kidney* 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 20mins. The section was then incubated with ab2869, 5ug/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. The inset secondary-only control image is taken from an identical assay without primary antibody.

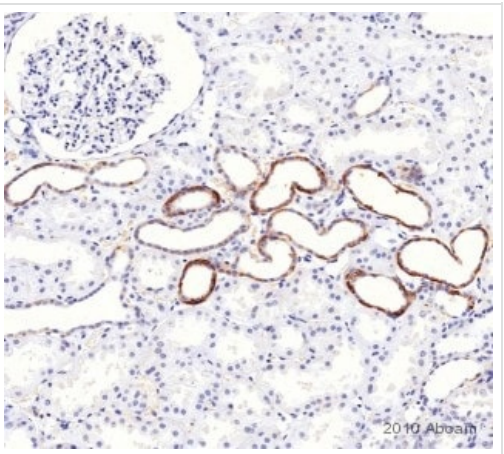
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

**Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre*



Flow Cytometry (Intracellular) - Anti-NCX1 antibody [C2C12] (ab2869)

Overlay histogram showing HEK293 cells stained with ab2869 (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 (ab2869, 1/100 dilution) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgM (mu chain) (**ab97007**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgM [ICIGM] (**ab91545**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HEK293 cells fixed with 4% paraformaldehyde (10 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NCX1 antibody [C2C12] (ab2869)

This image is courtesy of an anonymous Abreview

ab2869 staining NCX1 in Human kidney tissue sections by Immunohistochemistry (IHC-P - formaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde, permeabilized with 0.05% Tween20 and blocked with 5% normal goat serum in 1XPBS + 0.05% Tween20 for 1 hour at 25°C; antigen retrieval was by heat mediation in sodium citrate (pH 6.0) buffer. Samples were incubated with primary antibody (1/100 in blocking buffer) for 1 hour at 25°C. Ab47827 (1/500) was used as the secondary antibody.

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