abcam

Product datasheet

Anti-N Cadherin antibody [8C11] ab19348

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概述

产品名称	Anti-N Cadherin抗体[8C11]
描述	小鼠单克隆抗体[8C11] to N Cadherin
宿主	Mouse
经测试应用	**适用于:** ICC/IF, IHC-P
种属反应性	**与反应:** Human, Bird **预测可用于:** Rabbit, Hamster **不与反应:** Mouse, Rat, Cow, Pig
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
表位	The 8C11 monoclonal binds to the extracellular domain of N-cadherin between EC3 and EC4 (PubMed ID: 12604612).
阳性对照	IHC-P: Normal human heart tissue sections. ICC/IF: SH-SY5Y cells.
常规说明	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

性能

形式	Liquid
存放说明	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.
存储溶液	Preservative: 0.02% Sodium azide Constituent: PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	8C11

同种型	IgG1
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab19348于以下的经测试应用**

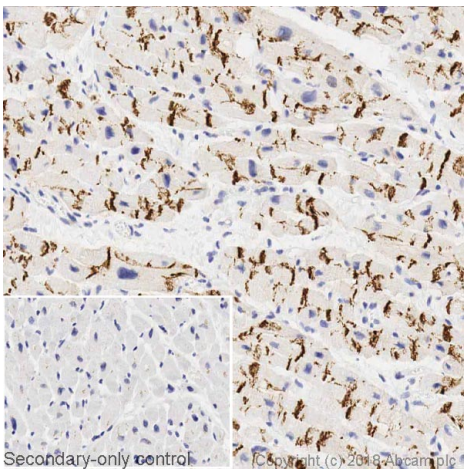
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use a concentration of 5 µg/ml.
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能	Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density.
序列相似性	Contains 5 cadherin domains.
细胞定位	Cell membrane.

图片



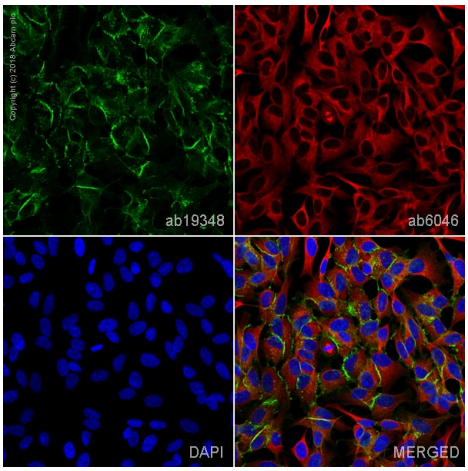
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody [8C11] (ab19348)

IHC image of N cadherin staining in a section of formalin-fixed paraffin-embedded normal human heart 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 (pH 6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab19348, 1 µg/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 hematoxylin 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.

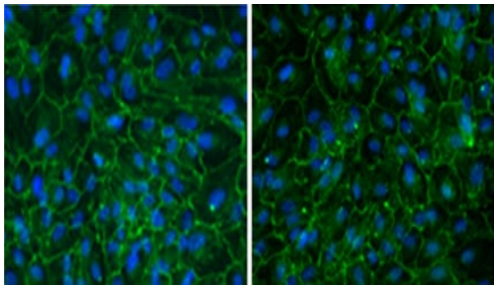


Immunocytochemistry/ Immunofluorescence - Anti-N Cadherin antibody [8C11] (ab19348)

ab19348 staining N-Cadherin in SH-SY5Y (Human neuroblastoma cell line from bone marrow) cells.

The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% Tween for 5 mins and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab19348 at 5 µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control, at 1/1000 dilution. Cells were then incubated with **ab150117**, Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (shown in green) and **ab150084**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolor red). Nuclear DNA was labeled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Immunocytochemistry/ Immunofluorescence - Anti-N Cadherin antibody [8C11] (ab19348)

Image from Chen HC et al., PLoS One. 2012;7(5):e36864. Epub 2012 May 9. Fig 1.; doi: 10.1371/journal.pone.0036864; May 9, 2012, PLoS One. 2012; 7(5): e36864. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

Immunofluorescence analysis of ARPE-19 (human retinal pigment epithelial) cells, staining N Cadherin (green) with ab19348, at 1/20 dilution.

ARPE-19 monolayer cultures were fixed in paraformaldehyde, permeabilized with 0.2% Triton X-100 for 15 min and blocked with 2% BSA for 30 min. Samples were incubated with primary antibody for 16 hours at 4°C before incubation with an Alexa Fluor® 488-conjugated donkey anti-mouse secondary IgG for 60 min.

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