abcam

Product datasheet

Anti-N Cadherin antibody [8C11] ab19348

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Overview

Product name	Anti-N Cadherin antibody [8C11]
Description	Mouse monoclonal [8C11] to N Cadherin
Host species	Mouse
Tested applications	**Suitable for:** ICC/IF, IHC-P
Species reactivity	**Reacts with:** Human, Bird **Predicted to work with:** Rabbit, Hamster **Does not react with:** Mouse, Rat, Cow, Pig
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Epitope	The 8C11 monoclonal binds to the extracellular domain of N-cadherin between EC3 and EC4 (PubMed ID: 12604612).
Positive control	IHC-P: Normal human heart tissue sections. ICC/IF: SH-SY5Y cells.
General notes	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

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	8C11

Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab19348 in the following tested applications.

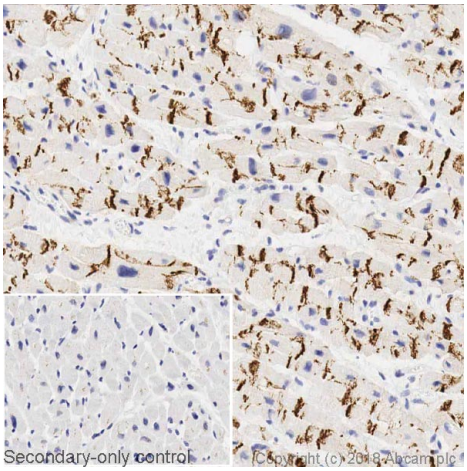
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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.

Target

Function	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.
Sequence similarities	Contains 5 cadherin domains.
Cellular localization	Cell membrane.

Images



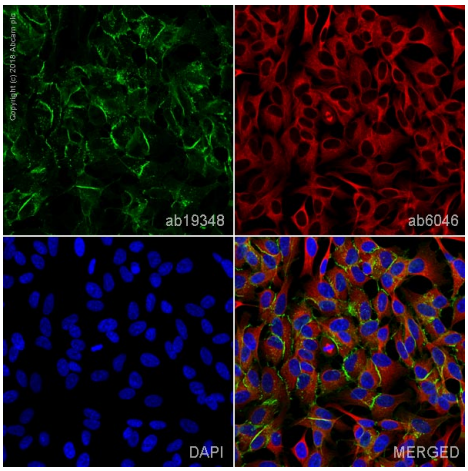
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody [8C11] (ab19348)

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.

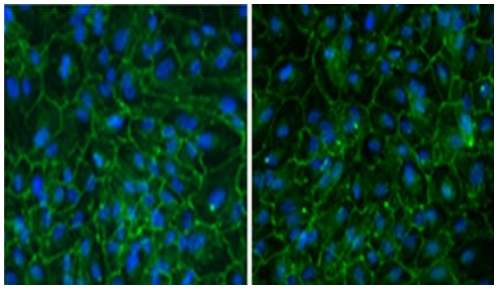


Immunocytochemistry/ Immunofluorescence - Anti-N Cadherin antibody [8C11] (ab19348)

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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