

Product datasheet

Anti-N Cadherin antibody ab18203

★★★★★ 33 Abreviews 160 References 12 Images

Overview

Product name	Anti-N Cadherin antibody
Description	Rabbit polyclonal to N Cadherin
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, WB, IHC-P, IP, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Mouse, Rat, Human, Pig, Xenopus laevis Predicted to work with: Chicken, Cow
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 800 - 900 of Human N Cadherin. Read Abcam's proprietary immunogen policy (Peptide available as ab18620 .)
Positive control	This antibody gave a positive signal in the following tissue lysates: Rat Brain Normal, Mouse Brain Normal, Human Brain Normal. This antibody gave a positive signal in the following tissues: Formalin Fixed Paraffin Embedded Human Liver Carcinoma. ICC/IF: HaCaT cells.

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab18203** 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
IHC-Fr	★★★★★	1/300.

Application	Abreviews	Notes
WB	★★★★☆	Use a concentration of 1 µg/ml. Detects a band of approximately 125-135 kDa (predicted molecular weight: 100 kDa).
IHC-P	★★★★★	Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.
ICC/IF	★★★★☆	Use a concentration of 5 µg/ml.
Flow Cyt	★★★★☆	Use a concentration of 10 µg/ml. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

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.

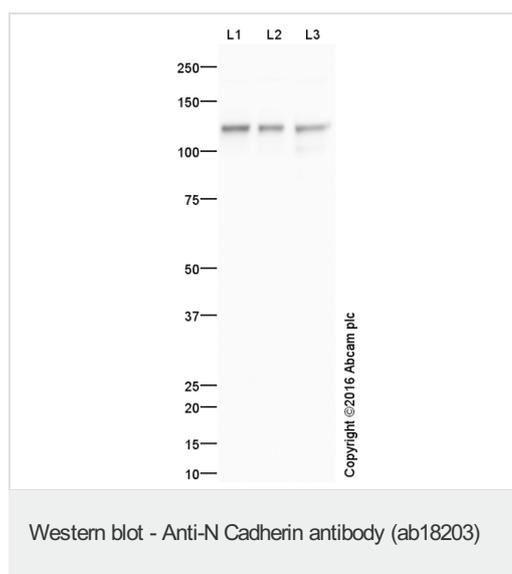
Sequence similarities

Contains 5 cadherin domains.

Cellular localization

Cell membrane.

Images



All lanes : Anti-N Cadherin antibody (ab18203) at 1 µg/ml

Lane 1 : Brain (Rat) Tissue Lysate at 10 µg

Lane 2 : Brain (Mouse) Tissue Lysate at 10 µg

Lane 3 : Brain (Human) Tissue Lysate at 20 µg

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 100 kDa

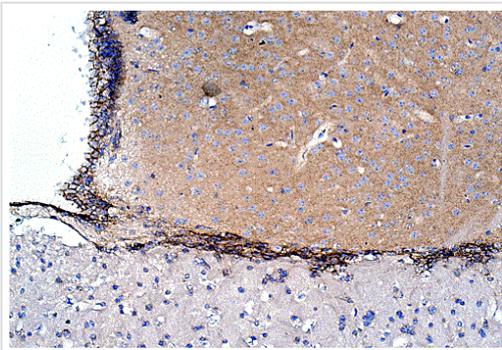
Observed band size: 125 kDa

[why is the actual band size different from the predicted?](#)

Exposure time: 1 minute

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab18203 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution [ab133406](#).

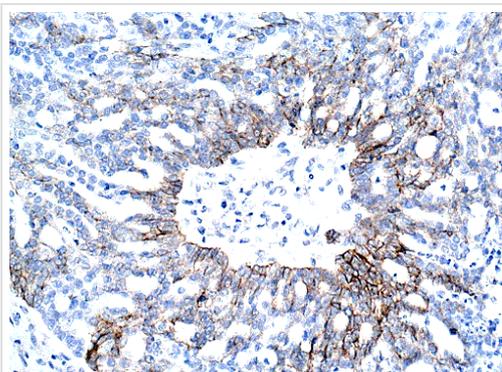
The N Cadherin protein has a predicted molecular weight of 100 kDa, however it is extensively glycosylated and has been shown to run in the 125-135 kDa region (SwissProt data).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody (ab18203)

Anti N-cadherin (ab18203) staining of mouse brain using immunohistochemistry (formaldehyde-fixed, paraffin-embedded sections). Heat-mediated antigen retrieval was carried out using citric acid. Samples were incubated with primary antibody (1/1000) for two hours at room temperature. A biotin-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody.

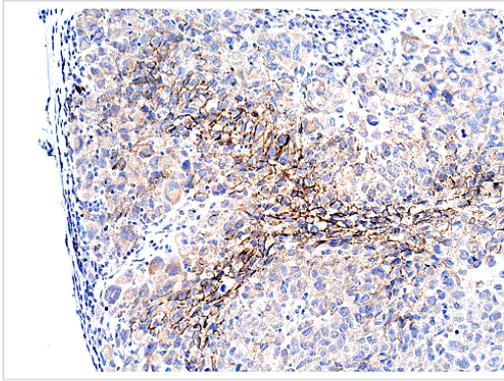
Image courtesy of Mr Carl Hobbs, Kings College London.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody (ab18203)

Anti N-cadherin (ab18203) staining of human ovarian cancer tissue using immunohistochemistry (formaldehyde-fixed, paraffin-embedded sections). Heat-mediated antigen retrieval was carried out using citric acid. Samples were incubated with primary antibody (1/1000) for two hours at room temperature. A biotin-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody.

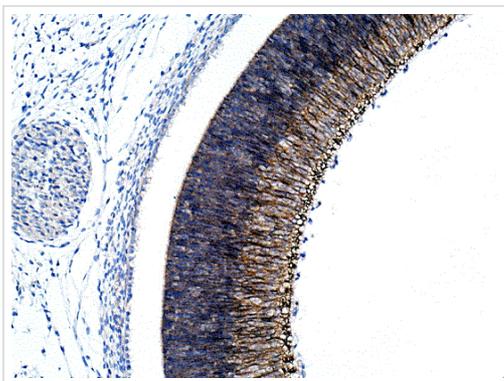
Image courtesy of Mr Carl Hobbs, Kings College London



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody (ab18203)

Anti N-cadherin (ab18203) staining in a human melanoma xenograft mouse model using immunohistochemistry (formaldehyde-fixed, paraffin-embedded sections). Heat-mediated antigen retrieval was carried out using citric acid. Samples were incubated with primary antibody (1/1000) for two hours at room temperature. A biotin-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody.

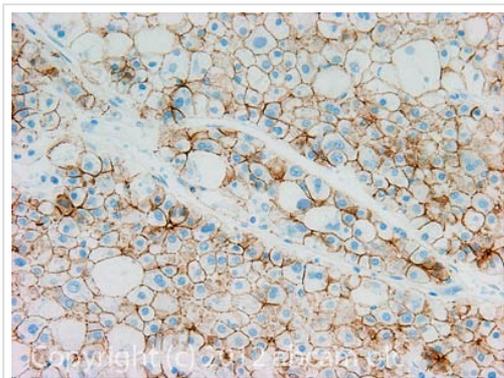
Image courtesy of Mr Carl Hobbs, Kings College London.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody (ab18203)

Anti N-cadherin (ab18203) staining of E17 developing rat retina using immunohistochemistry (formaldehyde-fixed, paraffin-embedded sections). Heat-mediated antigen retrieval was carried out using citric acid. Samples were incubated with primary antibody (1/1000) for two hours at room temperature. A biotin-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody.

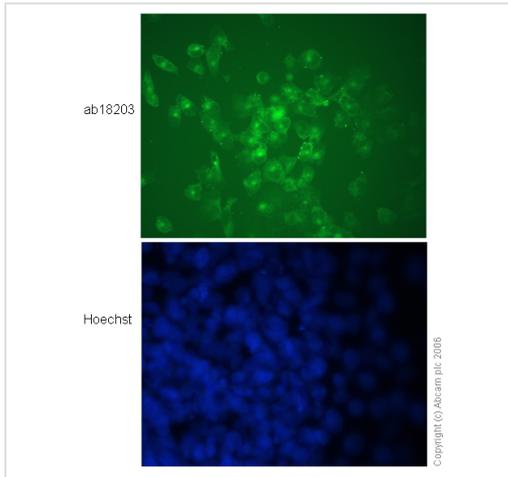
Image courtesy of Mr Carl Hobbs, Kings College London.



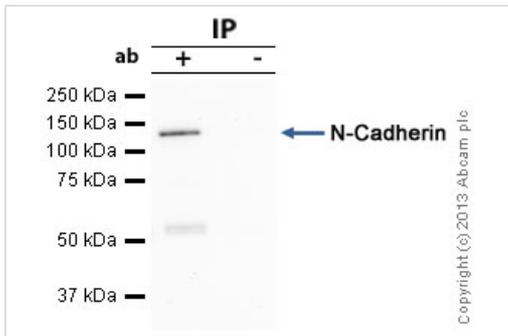
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody (ab18203)

IHC image of N Cadherin staining in Human liver cancer 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 ab18203, 1µg/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.

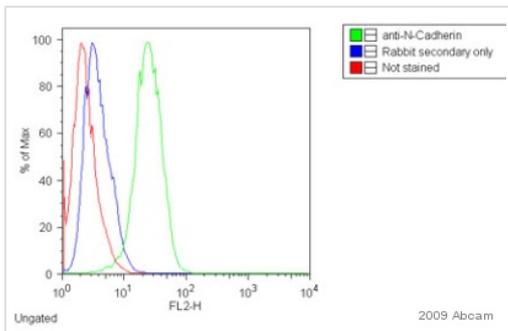
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunocytochemistry/ Immunofluorescence - Anti-N Cadherin antibody (ab18203)



Immunoprecipitation - Anti-N Cadherin antibody (ab18203)



Flow Cytometry - Anti-N Cadherin antibody (ab18203)

This image is courtesy of an anonymous Abreview

anti-N cadherin antibody ab18203 stained human embryonic stem cells differentiated into mesoderm.

N Cadherin was immunoprecipitated using 0.5mg Mouse Brain whole tissue lysate, 5µg of Rabbit polyclonal to N Cadherin and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

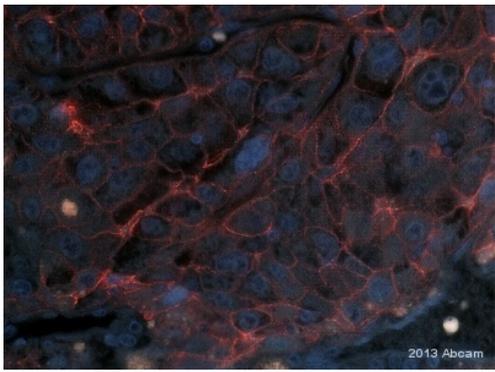
The antibody was incubated under agitation with Protein G beads for 10min, Mouse Brain whole tissue lysate lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab18203.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) (ab99697).

Band: 135kDa: N Cadherin

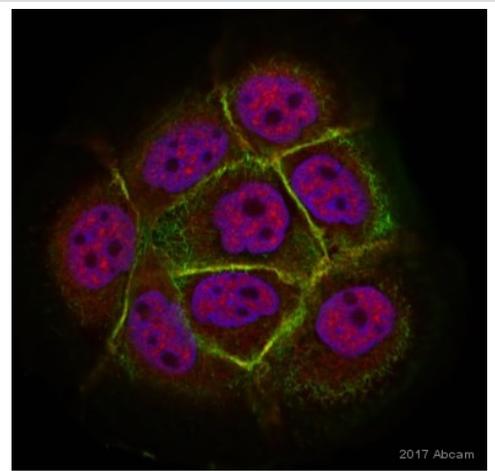
ab18203 staining CD63 in human Fibrosarcoma HT1080 cell line by flow cytometry. Cells were incubated with primary antibody for 1 hour. ab7007, a donkey polyclonal to rabbit Ig, was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody (ab18203)

This image is courtesy of an anonymous Abreview

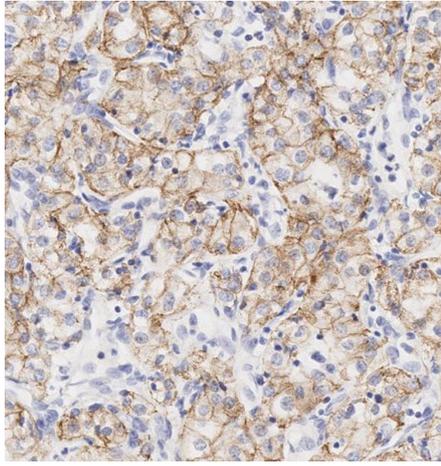
ab18203 staining N Cadherin in Human liver tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 10% serum for 30 minutes at 25°C; antigen retrieval was by heat mediation in a 10 mM citrate buffer pH6.0. Samples were incubated with primary antibody (1/100 in PBS plus casein) for 90 minutes at 37°C. A Biotin-conjugated Goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-N Cadherin antibody (ab18203)

This image is courtesy of an Abreview submitted by Dr. Ann Wheeler.

Paraformaldehyde-fixed, 0.2% Triton X100 permeabilized HaCaT (human keratinocyte cell line) cells stained for N Cadherin (green) using ab18203 at 1/200 dilution in ICC/IF, followed by Donkey anti Rabbit Alexa Fluor 568 at 1/500 dilution.



Immunohistochemistry of kidney carcinoma staining N Cadherin with ab18203 at 1µg/ml

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody (ab18203)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors