abcam

Product datasheet

Anti-N Cadherin antibody [EPR1791-4] - BSA and Azide free ab271856

敲除验证 重组 RabMAb

1 Abreviews 9 图像

概述

产品名称	Anti-N Cadherin抗体[EPR1791-4] - BSA and Azide free
描述	兔单克隆抗体[EPR1791-4] to N Cadherin - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P **不适用于:** Flow Cyt or ICC/IF
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human liver, and Human cardiac muscle tissues;
常规说明	ab271856 is the carrier-free version of **ab76011**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: PBS
无载体	**是**
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR1791-4
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab271856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。

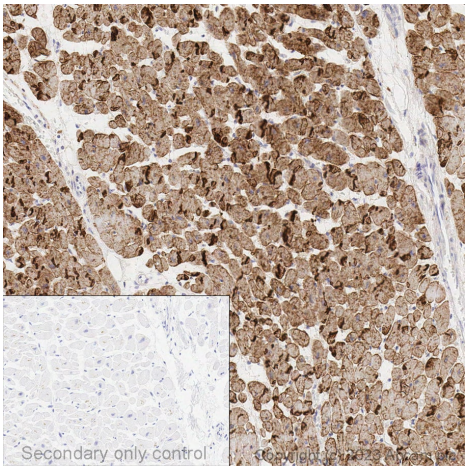
应用	Ab评论	说明
WB		Use at an assay dependent concentration. Predicted molecular weight: 99 kDa.
IHC-P		Use at an assay dependent concentration.

应用说明 Is unsuitable for Flow Cyt or ICC/IF.

靶标

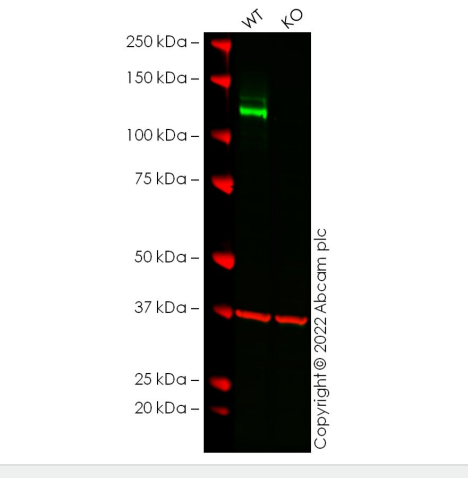
功能	Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, 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 [EPR1791-4] - BSA and Azide free (ab271856)

Immunohistochemical analysis of formalin-fixed paraffin-embedded human heart labelling N Cadherin with ab271856 at a concentration of 1µg/ml. The immunostaining was performed on a Ventana DISCOVERY ULTRA (Roche Tissue Diagnostics) instrument with an OptiView DAB IHC Detection Kit. Heat mediated antigen retrieval was conducted for 32min with ULTRA cell conditioning solution (CC1 pH8.5). ab271856 anti N Cadherin antibody was incubated at 37°C for 16min. Sections were counterstained is with Hematoxylin II. Image inset shows absence of staining in secondary antibody only control.



Western blot - Anti-N Cadherin antibody [EPR1791-4] - BSA and Azide free (ab271856)

All lanes : Anti-N Cadherin antibody [EPR1791-4] (**ab76011**) at 1/5000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : cdh2 knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution

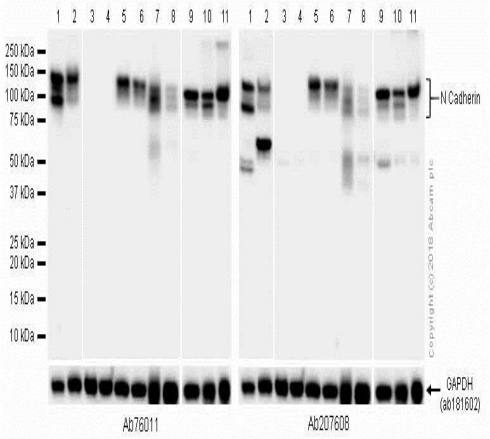
Performed under reducing conditions.

Predicted band size: 99 kDa
Observed band size: 125 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab76011**).

False colour image of Western blot: Anti-N Cadherin antibody [EPR1791-4] staining at 1/5000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab76011** was shown to bind specifically to N Cadherin. A band was observed at 125 kDa in wild-type HeLa cell lysates with no signal observed at this size in cdh2 knockout cell line **ab274934** (knockout cell lysate **ab274992**).

To generate this image, wild-type and cdh2 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-N Cadherin antibody [EPR1791-4] - BSA and Azide free (ab271856)

All lanes : **ab76011**, Anti-N Cadherin antibody [EPR1791-4] (Left) or **ab207608**, Anti-N Cadherin antibody [EPR19654] (Right), 1/1000 dilution

Lane 1 : A549 (Human lung carcinoma epithelial cell) whole cell lysates prepared in RIPA lysis method with 5% NFDM/TBST
Lane 2 : PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysates prepared in RIPA lysis method with 5% NFDM/TBST
Lane 3 : HCT 116 (Human colorectal carcinoma epithelial cell) whole cell lysates prepared in RIPA lysis method with 5% NFDM/TBST
Lane 4 : HCT 116 (Human colorectal carcinoma epithelial cell) whole cell lysates prepared in 1%SDS Hot lysis method with 5% NFDM/TBST
Lane 5 : HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate prepared in RIPA lysis method with 5% NFDM/TBST
Lane 6 : HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate prepared in 1%SDS Hot lysis method with 5% NFDM/TBST
Lane 7 : C6 (Rat glial tumor glial cell) whole cell lysates prepared in RIPA lysis method with 5% NFDM/TBST
Lane 8 : C6 (Rat glial tumor glial cell) whole cell lysates prepared in 1%SDS Hot lysis method with 5% NFDM/TBST

Lane 9 : Human brain lysates prepared in 1%SDS Hot lysis method with 5% NFDM/TBST
Lane 10 : Mouse brain lysates prepared in 1%SDS Hot lysis method with 5% NFDM/TBST
Lane 11 : Rat brain lysates prepared in 1%SDS Hot lysis method with 5% NFDM/TBST

Lysates/proteins at 20 µg per lane.

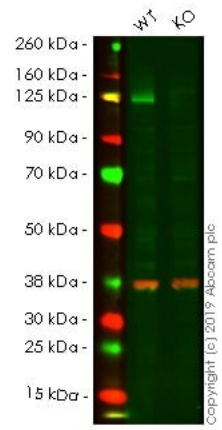
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 99 kDa
Observed band size: 110-130 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76011**).

Lanes 1 - 2: Merged signal (red and green). Green - **ab76011** observed at 125 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab76011 was shown to react with N Cadherin in wild-type HEK-293T. Loss of signal was observed when knockout cell line **ab255377** (knockout cell lysate **ab263843**) was used. Wild-type and N Cadherin knockout samples were subjected to SDS-PAGE. **ab76011** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 5000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-N Cadherin antibody [EPR1791-4] - BSA and Azide free (ab271856)

All lanes : Anti-N Cadherin antibody [EPR1791-4] (**ab76011**) at 1/5000 dilution

Lane 1 : Wild-type HEK-293T cell lysate
Lane 2 : CDH2 knockout HEK-293T cell lysate

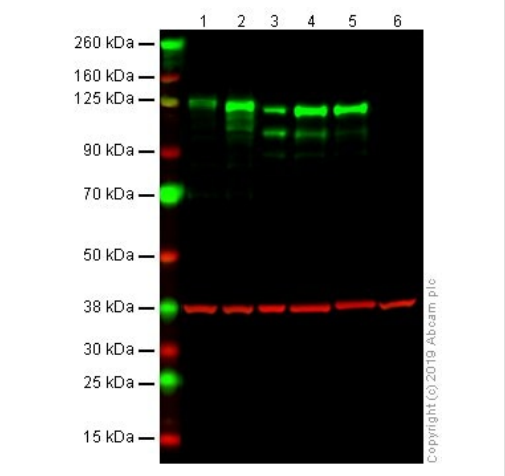
Lysates/proteins at 20 µg per lane.

Predicted band size: 99 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76011**).

Lanes 1 - 2: Merged signal (red and green). Green - **ab76011** observed at 125 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab76011 was shown to react with N Cadherin in wild-type HEK-293T. Loss of signal was observed when knockout cell line **ab255377** (knockout cell lysate **ab263843**) was used. Wild-type and N Cadherin knockout samples were subjected to SDS-PAGE. **ab76011** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 5000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-N Cadherin antibody [EPR1791-4] - BSA and Azide free (ab271856)

All lanes : Anti-N Cadherin antibody [EPR1791-4] (**ab76011**) at 1/1000 dilution

Lane 1 : HeLa Whole Cell Lysate
Lane 2 : HeLa Whole Cell Lysate (Scraped)
Lane 3 : Human Brain Tissue Lysate
Lane 4 : Mouse Brain Tissue Lysate
Lane 5 : Rat Brain Tissue Lysate
Lane 6 : MCF7 Whole Cell Lysate

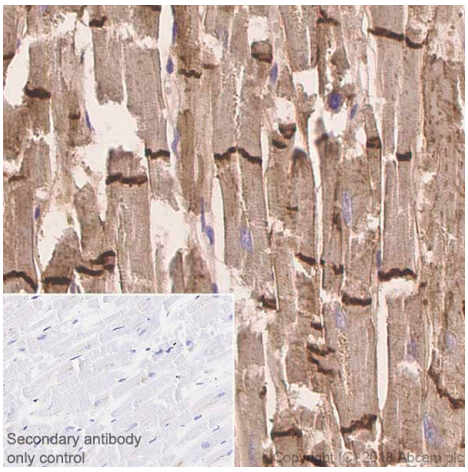
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 99 kDa
Observed band size: 125 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76011**).

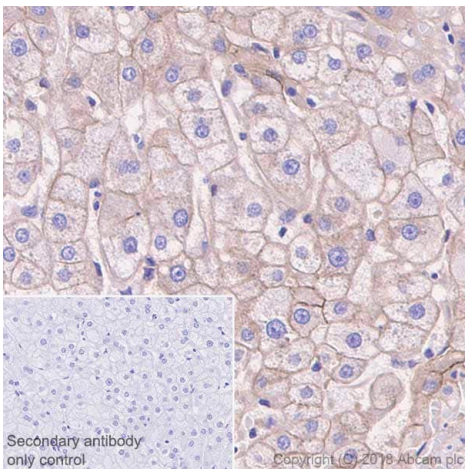
This blot was produced using a 4-12% Bis-tris under the MOPS buffer system. The gel was run at 200V for 55 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was blocked for an hour using 3% milk before **ab76011** and **ab8245** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at a 1/1000 dilution and 1/20000 dilution respectively. Antibody binding was detected using Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody [EPR1791-4] - BSA and Azide free (ab271856)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human cardiac muscle tissue sections labeling N Cadherin with purified **ab76011** at 1:50 dilution (1.94 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

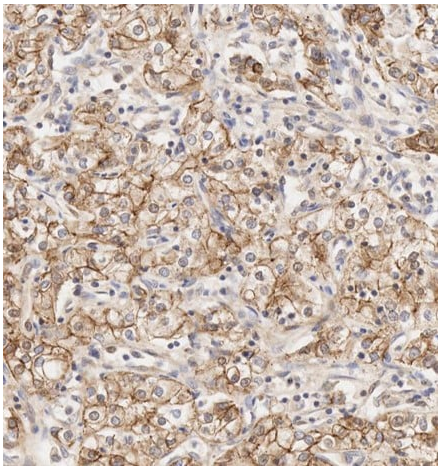
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76011**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody [EPR1791-4] - BSA and Azide free (ab271856)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling N Cadherin with purified **ab76011** at 1:50 dilution (1.94 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76011**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody [EPR1791-4] - BSA and Azide free (ab271856)

Immunohistochemistry of kidney carcinoma staining N Cadherin with **ab76011** at 1µg/ml

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76011**).

Anti-N Cadherin antibody [EPR1791-4] - BSA and Azide free (ab271856)

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