abcam

Product datasheet

Anti-N Cadherin antibody [EPR19654] ab207608

敲除验证 重组 RabMAb

14 References 6 图像

概述

产品名称	Anti-N Cadherin抗体[EPR19654]
描述	兔单克隆抗体[EPR19654] to N Cadherin
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HepG2 and PC-3 whole cell lysates; human fetal brain, cerebellum and fetal liver lysates. IHC-P: Human cardiac muscle and endometrium tissues.
常规说明	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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR19654
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab207608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		1/1000. Detects a band of approximately 130, 110 kDa (predicted molecular weight: 100 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

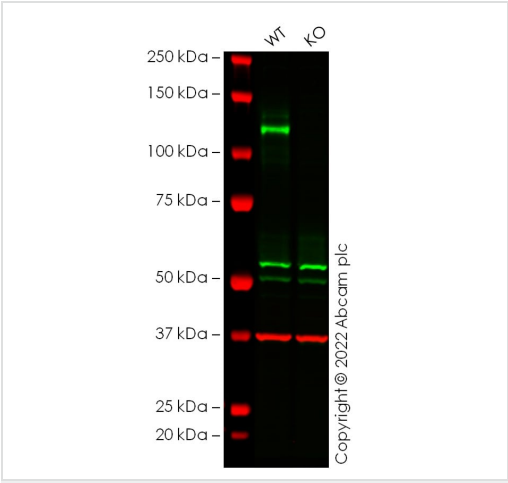
靶标

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



Western blot - Anti-N Cadherin antibody [EPR19654] (ab207608)

All lanes : Anti-N Cadherin antibody [EPR19654] (ab207608) at 1/1000 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

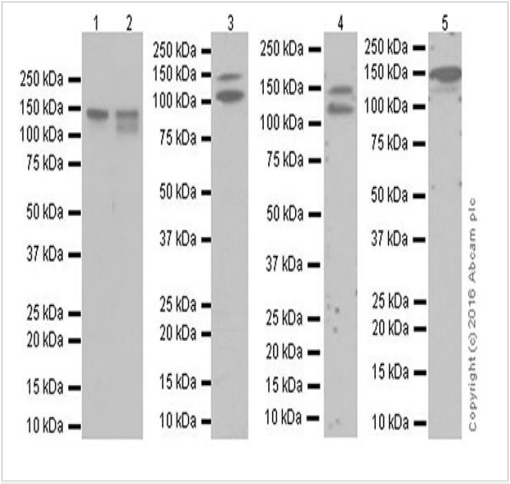
Performed under reducing conditions.

Predicted band size: 100 kDa
Observed band size: 125 kDa

False colour image of Western blot: Anti-N Cadherin antibody

[EPR19654] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab207608 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 [EPR19654] (ab207608)

All lanes : Anti-N Cadherin antibody [EPR19654] (ab207608) at 1/1000 dilution

Lane 1 : HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate
Lane 2 : PC-3 (Human prostate adenocarcinoma cell line) whole cell lysate
Lane 3 : Human fetal brain lysate
Lane 4 : Human cerebellum lysate
Lane 5 : Human fetal liver lysate

Lysates/proteins at 10 µg per lane.

Secondary
Lanes 1-2 : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution
Lanes 3-5 : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/100000 dilution

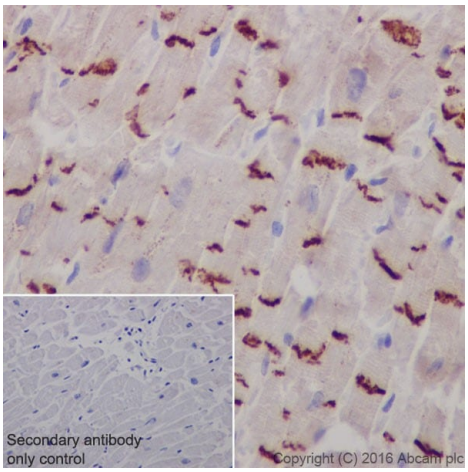
Predicted band size: 100 kDa
Observed band size: 110,130 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1/2: 30 seconds; Lane 3: 5 seconds; Lane

4/5: 3 minutes.

The molecular weight observed is consistent with what has been described in the literature(PMID: 22553038).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody [EPR19654] (ab207608)

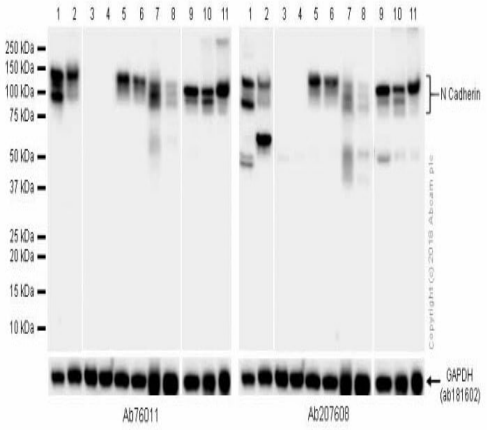
Immunohistochemical analysis of paraffin-embedded human cardiac muscle tissue labeling N Cadherin with ab207608 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Intercalated disc staining on human cardiac muscle is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-N Cadherin antibody [EPR19654] (ab207608)

All lanes : **ab76011**, Anti-N Cadherin antibody [EPR1791-4] (Left) or ab207608 (Right) at 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.

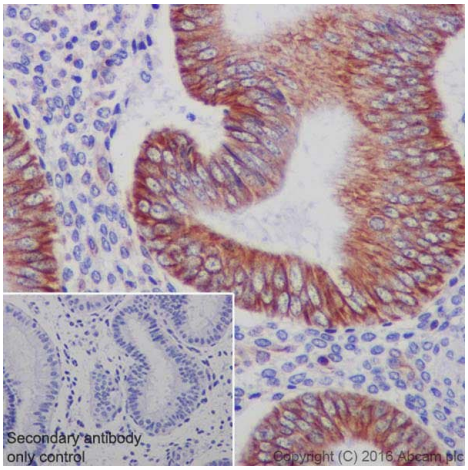
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 100 kDa
Observed band size: 110-130 kDa

Exposure time:

Lane 1 and 2: 4 seconds
Lane 4 to 11: 1 seconds

The molecular weight observed is consistent with what has been described in the literature (PMID: 22553038). This antibody fails to detect N Cadherin in HCT 116 cell which is positive described in the literature (PMID: 23431386 and 26540342)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N Cadherin antibody [EPR19654] (ab207608)

Immunohistochemical analysis of paraffin-embedded human endometrium tissue labeling N Cadherin with ab207608 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Membrane staining on human endometrium is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Anti-N Cadherin antibody [EPR19654] (ab207608)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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.cn/abpromise** or contact our technical team.

Terms and conditions

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