

Product datasheet

Anti-N Cadherin antibody [EPR19654] ab207608

Recombinant RabMAb

[1 References](#) [4 Images](#)

Overview

Product name	Anti-N Cadherin antibody [EPR19654]
Description	Rabbit monoclonal [EPR19654] to N Cadherin
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human N Cadherin aa 250-500. The exact sequence is proprietary. Database link: P19022
Positive control	WB: HepG2 and PC-3 whole cell lysates; human fetal brain, cerebellum and fetal liver lysates. IHC-P: Human cardiac muscle and endometrium tissues.

General notes

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](#).

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: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR19654

Isotype IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab207608** 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
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.

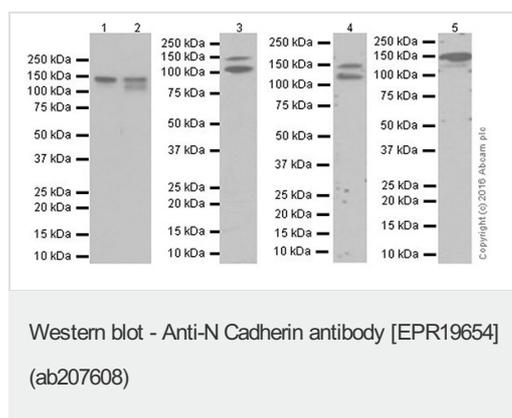
Target

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 [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

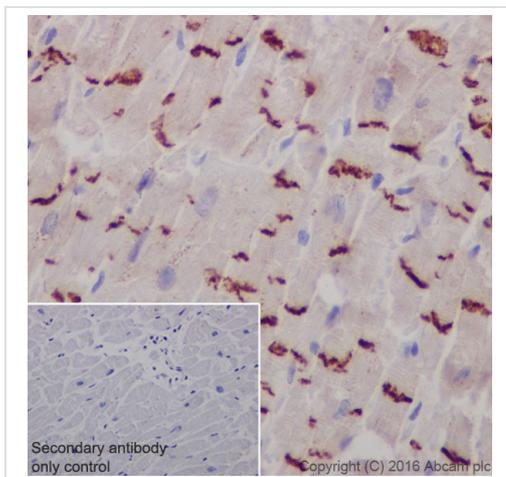
Observed band size: 110,130 kDa

why is the actual band size different from the predicted?

Blocking/Dilution buffer: 5% NFDN/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)

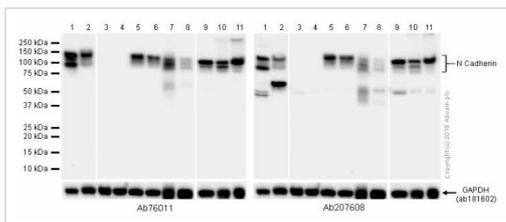
Immunohistochemical analysis of paraffin-embedded human cardiac muscle tissue labeling N Cadherin with ab207608 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

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% NFDN/TBST

Lane 2 : PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysates prepared in RIPA lysis method with 5% NFDN/TBST

Lane 3 : HCT 116 (Human colorectal carcinoma epithelial cell) whole cell lysates prepared in RIPA lysis method with 5% NFDN/TBST

Lane 4 : HCT 116 (Human colorectal carcinoma epithelial cell) whole cell lysates prepared in 1%SDS Hot lysis method with 5% NFDN/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

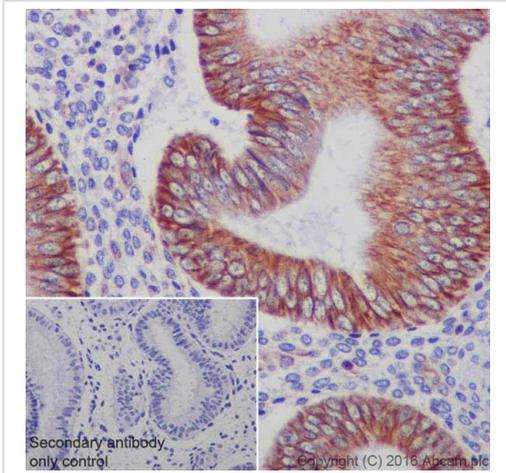
Observed band size: 110-130 kDa [why is the actual band size
different from the predicted?](#)

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.

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

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