abcam

Product datasheet

Anti-N Cadherin antibody [32/N-Cadherin] ab280375

KO 評価済 リコンビナント

3 References 画像数 6

製品の概要

製品名	Anti-N Cadherin antibody [32/N-Cadherin]
製品の詳細	Mouse monoclonal [32/N-Cadherin] to N Cadherin
由来種	Mouse
アプリケーション	**適用あり:** WB, IP **適用なし:** ICC/IF
種交差性	**交差種:** Mouse, Rat, Human
免疫原	The details of the immunogen for this antibody are not available.
ポジティブ・コントロール	WB: 292T, HeLa, HepG2, Mouse brain, kidney, Rat heart, C6, PC-12 lysates. IP: HeLa cells.
特記事項	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**.

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	32/N-Cadherin
アイソタイプ	IgG1

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab280375の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Predicted molecular weight: 99 kDa.
IP		1/30.

追加情報 Is unsuitable for ICC/IF.

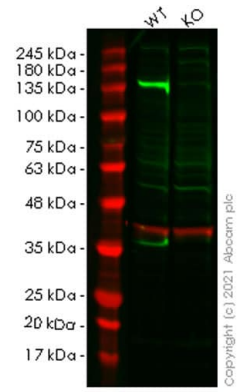
ターゲット情報

機能 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.

配列類似性 Contains 5 cadherin domains.

細胞内局在 Cell membrane.

画像



Western blot - Anti-N Cadherin antibody [32/N-Cadherin] (ab280375)

All lanes : Anti-N Cadherin antibody [32/N-Cadherin] (ab280375) at 1/1000 dilution

Lane 1 : Wild-type 293T (human embryonic kidney epithelial cell), whole cell lysate
Lane 2 : CDH2 knockout 293T (human embryonic kidney epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Mouse IgG H&L (IRDye® 800CW) (**ab216772**) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) (**ab216777**) at 1/10000 dilution

Predicted band size: 99 kDa
Observed band size: 140 kDa

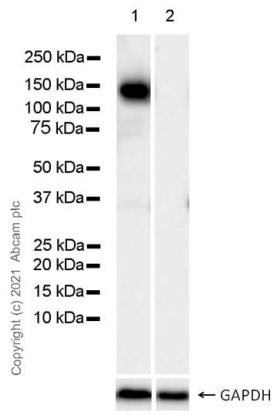
Blocking and Diluting buffer and concentration: Intercept® (TBS) Blocking Buffer diluted with an equal volume of 0.1% TBS.

Lanes 1 - 2: Merged signal (red and green). Green - ab280375

observed at 130 kDa. Red - loading control **ab181602**(Rabbit monoclonal [EPR16891] to GAPDH) observed at 36 kDa.

Lanes 1-2: ab280375 Anti-CDH2 antibody was shown to react with CDH2 in 293T cells in Western blot. Loss of signal was observed when CDH2 knockout sample was used. Wild-type and CDH2 knockout samples were subjected to SDS-PAGE.

ab280375 and Anti-GAPDH antibody [EPR16891] (**ab181602**) were incubated at 4? overnight at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 680CW) (**ab216777**) and Goat anti-Mouse IgG H&L (IRDye® 800RD) (**ab216772**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-N Cadherin antibody [32/N-Cadherin] (ab280375)

All lanes : Anti-N Cadherin antibody [32/N-Cadherin] (ab280375) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate
Lane 2 : MCF7 (human breast adenocarcinoma epithelial cell), whole cell lysate

Lysates/proteins at 10 µg per lane.

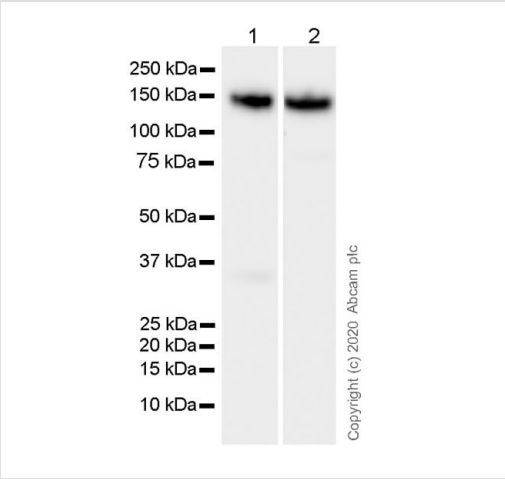
Secondary
All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

Predicted band size: 99 kDa
Observed band size: 140 kDa

Blocking and Diluting buffer and concentration: 5% NFDM/TBST

Exposure time 26 seconds

Negative control: MCF7 (PMID: 9177902)



Western blot - Anti-N Cadherin antibody [32/N-Cadherin] (ab280375)

All lanes : Anti-N Cadherin antibody [32/N-Cadherin] (ab280375) at 1/5000 dilution

Lane 1 : HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate
Lane 2 : 293T (human embryonic kidney epithelial cell), whole cell lysate

Lysates/proteins at 10 µg per lane.

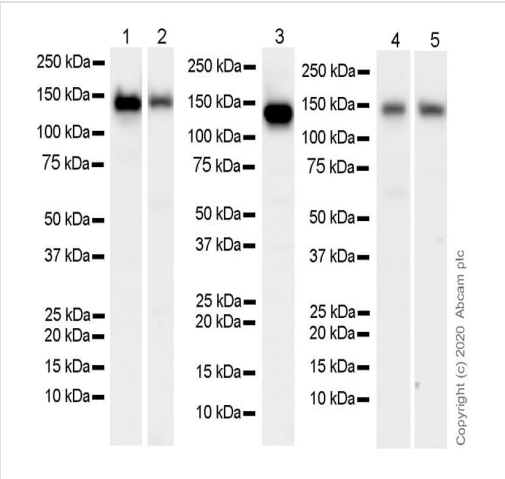
Secondary
All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

Predicted band size: 99 kDa
Observed band size: 140 kDa

Blocking and Diluting buffer and concentration: 5% NFDM/TBST

Exposure time 15 seconds

Lanes 1-2 used the fresh lysates to minimize protein degradation.



Western blot - Anti-N Cadherin antibody [32/N-Cadherin] (ab280375)

All lanes : Anti-N Cadherin antibody [32/N-Cadherin] (ab280375) at 1/1000 dilution

Lane 1 : Mouse brain lysate
Lane 2 : Mouse kidney lysate
Lane 3 : Rat heart lysate
Lane 4 : C6 (rat glial tumor glial cell), whole cell lysate
Lane 5 : PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

Predicted band size: 99 kDa

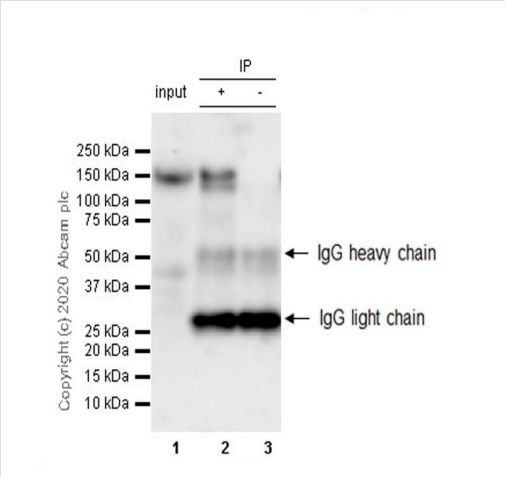
Observed band size: 140 kDa

Blocking and Diluting buffer and concentration: 5% NFDM/TBST

Exposure time Lanes 1-2: 15 seconds

Lanes 3: 10 seconds

Lanes 4-5: 26 seconds



Immunoprecipitation - Anti-N Cadherin antibody [32/N-Cadherin] (ab280375)

N Cadherin was immunoprecipitated from 0.35 mg HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate with ab280375 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab280375 at 1/1000 dilution. HRP-conjuagted mouse IgG for IP (**ab131368**) was used at 1/1000 dilution.

Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10ug

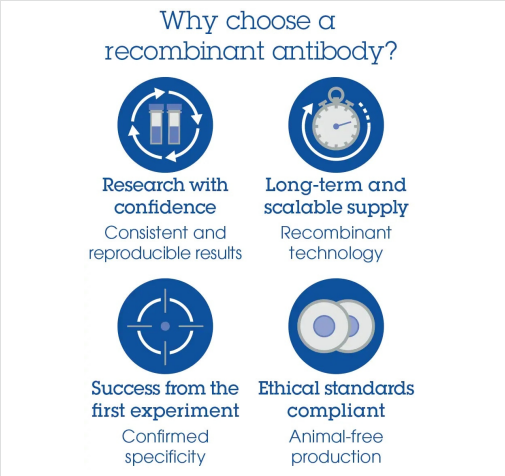
Lane 2: ab280375 IP in HeLa whole cell lysate

Lane 3: Mouse monoclonal IgG1 (**ab18443**) instead of ab280375 in HeLa whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 23 seconds

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



Anti-N Cadherin antibody [32/N-Cadherin] (ab280375)

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