

# Anti-CTNNA1 antibody [EP1793Y] - Low endotoxin, Azide free ab226010

KO 評価済 リコンビナント RabMAb

[11 References](#) [画像数 7](#)

### 製品の概要

|              |   |
|--------------|---|
| 製品名          | Anti-CTNNA1 antibody [EP1793Y] - Low endotoxin, Azide free  |
| 製品の詳細        | Rabbit monoclonal [EP1793Y] to CTNNA1 - Low endotoxin, Azide free   |
| 由来種          | Rabbit  |
| アプリケーション     | <b>適用あり:</b> IHC-P, WB, IP<br><b>適用なし:</b> Flow Cyt or ICC/IF   |
| 種交差性         | <b>交差種:</b> Mouse, Rat, Human   |
| 免疫原          | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.   |
| ポジティブ・コントロール | WB: Mouse heart and kidney lysate. Rat brain and kidney lysate. HeLa, A431 and HUVEC whole cell lysate. IHC-P: Rat and human stomach tissue and mouse liver tissue IP: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate   |
| 特記事項         | <p>ab226010 is the carrier-free version of <a href="#">ab51032</a>.</p> <p>Our <b>carrier-free</b> 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.</p> <p>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.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Our <b>Low endotoxin, azide-free formats</b> have low endotoxin level (<math>\leq 1</math> EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.</p> |

### 製品の特性

|          |   |
|----------|---|
| 製品の状態    | Liquid  |
| 保存方法     | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| バッファー    | pH: 7.20<br>Constituent: PBS                  |
| キャリア・フリー | はい  |
| 精製度      | Protein A purified                            |
| ポリ/モノ    | モノクローナル                                       |
| クローン名    | EP1793Y                                       |
| アイソタイプ   | IgG   |

## アプリケーション

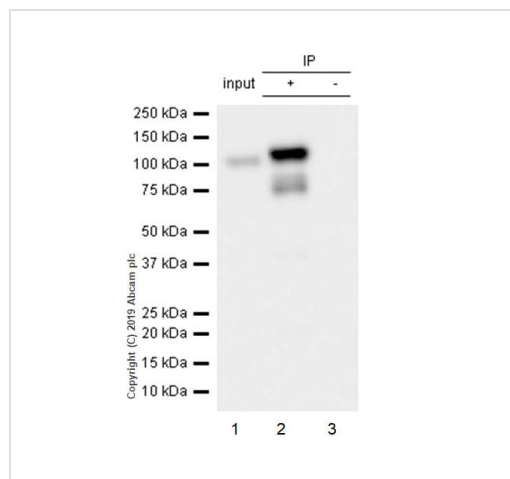
**The Abpromise guarantee** Abpromise保証は、次のテスト済みアプリケーションにおけるab226010の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション | Abreviews | 特記事項  |
|----------|-----------|---|
| IHC-P    |           | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| WB       |           | Use at an assay dependent concentration. Detects a band of approximately 100 kDa (predicted molecular weight: 100 kDa).                                 |
| IP       |           | Use at an assay dependent concentration.  |

**追加情報** Is unsuitable for Flow Cyt or ICC/IF.

## ターゲット情報

|              |   |
|--------------|---|
| <b>機能</b>    | Associates with the cytoplasmic domain of a variety of cadherins. The association of catenins to cadherins produces a complex which is linked to the actin filament network, and which seems to be of primary importance for cadherins cell-adhesion properties. Can associate with both E- and N-cadherins. Originally believed to be a stable component of E-cadherin/catenin adhesion complexes and to mediate the linkage of cadherins to the actin cytoskeleton at adherens junctions. In contrast, cortical actin was found to be much more dynamic than E-cadherin/catenin complexes and CTNNA1 was shown not to bind to F-actin when assembled in the complex suggesting a different linkage between actin and adherens junctions components. The homodimeric form may regulate actin filament assembly and inhibit actin branching by competing with the Arp2/3 complex for binding to actin filaments. May play a crucial role in cell differentiation. |
| <b>組織特異性</b> | Expressed ubiquitously in normal tissues.   |
| <b>配列類似性</b> | Belongs to the vinculin/alpha-catenin family.   |
| <b>翻訳後修飾</b> | Sumoylated.   |
| <b>細胞内局在</b> | Cell membrane and Cytoplasm > cytoskeleton. Cell junction > adherens junction. Cell membrane. Cell junction. Found at cell-cell boundaries and probably at cell-matrix boundaries.  |



Immunoprecipitation - Anti-CTNNA1 antibody [EP1793Y] - Low endotoxin, Azide free (ab226010)

**ab190685** at 1/100 dilution immunoprecipitating CTNNA1 in Jurkat HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysates

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

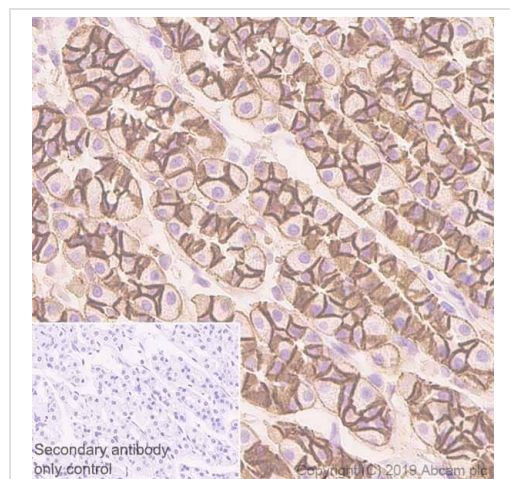
Lane 2 (+): HeLa whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab51032** in HeLa whole cell lysate

For western blotting, **ab51032** at 1/500 dilution and VeriBlot for IP Detection Reagent (HRP)(**ab131366**) at 1/1000 dilution were used.

Blocking and diluting buffer: 5% NFDm /TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab51032**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTNNA1 antibody [EP1793Y] - Low endotoxin, Azide free (ab226010)

Paraffin-embedded rat stomach tissue stained for CTNNA1 with **ab51032** at a 1/100 dilution in immunohistochemical analysis.

Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as a secondary antibody and Hematoxylin

used as a counterstain. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) was performed for

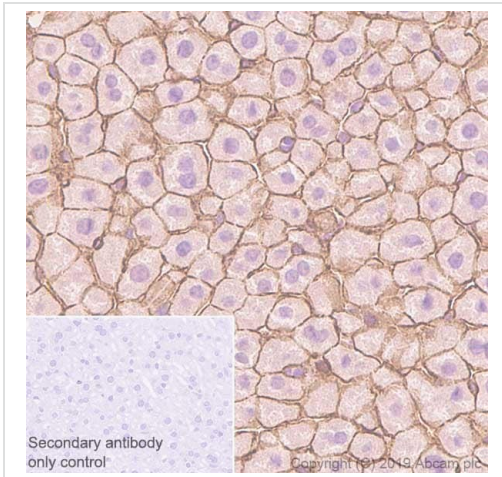
20 minutes.

Positive staining was seen on rat stomach.

The section was incubated with **ab51032** for 30 minutes at room temperature.

The immunostaining staining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab51032**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTNNA1 antibody [EP1793Y] - Low endotoxin, Azide free (ab226010)

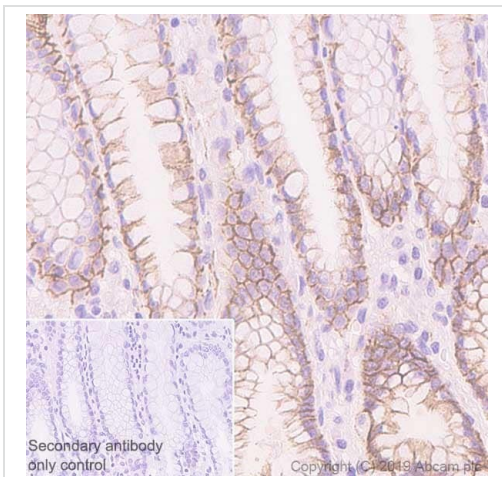
Paraffin-embedded mouse liver tissue stained for CTNNA1 with **ab51032** at a 1/100 dilution in immunohistochemical analysis. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as a secondary antibody and Hematoxylin used as a counterstain. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) was performed for 20 minutes.

Positive staining was seen on mouse liver.

The section was incubated with **ab51032** for 30 minutes at room temperature.

The immunostaining staining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab51032**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTNNA1 antibody [EP1793Y] - Low endotoxin, Azide free (ab226010)

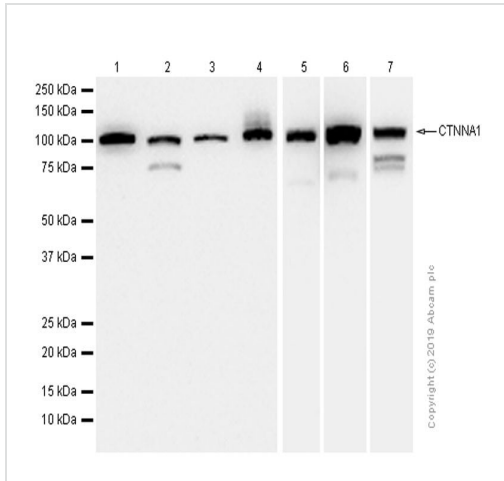
Paraffin-embedded human stomach tissue stained for CTNNA1 with **ab51032** at a 1/100 dilution in immunohistochemical analysis. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as a secondary antibody and Hematoxylin used as a counterstain. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) was performed for 20 minutes.

Positive staining was seen on human stomach.

The section was incubated with **ab51032** for 30 minutes at room temperature.

The immunostaining staining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab51032**).



Western blot - Anti-CTNNA1 antibody [EP1793Y] -  
Low endotoxin, Azide free (ab226010)

**All lanes** : Anti-CTNNA1 antibody [EP1793Y] (**ab51032**) at  
1/10000 dilution

**Lane 1** : Mouse heart lysate

**Lane 2** : Mouse kidney lysate

**Lane 3** : Rat brain lysate

**Lane 4** : Rat kidney lysate

**Lane 5** : HeLa (Human cervix adenocarcinoma epithelial cell)  
whole cell lysate

**Lane 6** : A431 (Human epidermoid carcinoma epithelial cell) whole  
cell lysate

**Lane 7** : HUVEC (Human umbilical vein endothelial cell) whole cell  
lysate

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:** 100 kDa

Exposure times

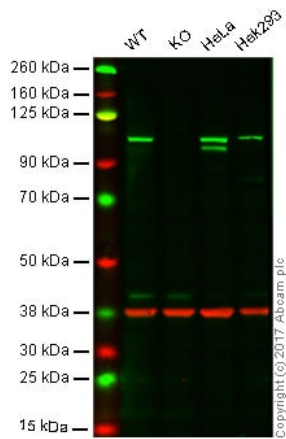
Lane 1-4: 180 seconds

Lane 5,7: 40 seconds

Lane 6: 5 seconds

Blocking/diluting buffer and concentration: 5% NFDm/TBST

This data was developed using the same antibody clone in a  
different buffer formulation containing PBS, BSA, glycerol, and  
sodium azide (**ab51032**).



Western blot - Anti-CTNNA1 antibody [EP1793Y] - Low endotoxin, Azide free (ab226010)

This WB data was generated using the same anti-CTNNA1 antibody clone [EP1793Y] in a different buffer formulation (cat# **ab51032**).

**Lane 1:** Wild-type HAP1 whole cell lysate (20 µg)

**Lane 2:** CTNNA1 HAP1 whole cell lysate (20 µg)

**Lane 3:** HeLa whole cell lysate (20 µg)

**Lane 4:** HEK293 whole cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - **ab51032** observed at 100 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

**ab51032** was shown to recognize CTNNA1 in wild-type cells as signal was lost at the expected MW in CTNNA1 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and CTNNA1 knockout samples were subjected to SDS-PAGE. Ab51032 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/50000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-CTNNA1 antibody [EP1793Y] - Low endotoxin,  
Azide free (ab226010)

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