

### Anti-Mad2L1 antibody [17D10] ab10691

KO 評価済

★★★★☆ 2 Abreviews 9 References 画像数 4

#### 製品の概要

製品名	Anti-Mad2L1 antibody [17D10]
製品の詳細	Mouse monoclonal [17D10] to Mad2L1
由来種	Mouse
特異性	Western blot with a variety of human cell lines confirms that the antibody is specific for Mad2.
アプリケーション	<b>適用あり:</b> WB, IHC-P
種交差性	<b>交差種:</b> Human
免疫原	Recombinant human Mad2.
ポジティブ・コントロール	WB: HAP1, HeLa and A431 cell lysates
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 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 or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.1% Sodium azide Constituent: PBS
精製度	Protein A purified
特記事項(精製)	Purified from supernatant.
ポリ/モノ	モノクローナル
クローン名	17D10
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ab10691の使用に適用されます

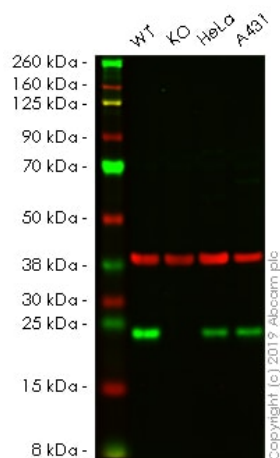
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	Use a concentration of 2 µg/ml. Detects a band of approximately 25 kDa (predicted molecular weight: 24.6 kDa).
IHC-P		Use at an assay dependent concentration.

## ターゲット情報

機能	Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. Required for the execution of the mitotic checkpoint which monitors the process of kinetochore-spindle attachment and inhibits the activity of the anaphase promoting complex by sequestering CDC20 until all chromosomes are aligned at the metaphase plate.
配列類似性	Belongs to the MAD2 family. Contains 1 HORMA domain.
ドメイン	The protein has two highly different native conformations, an inactive open conformation that cannot bind CDC20 and that predominates in cytosolic monomers, and an active closed conformation. The protein in the closed conformation preferentially dimerizes with another molecule in the open conformation, but can also form a dimer with a molecule in the closed conformation. Formation of a heterotetrameric core complex containing two molecules of MAD1L1 and of MAD2L1 in the closed conformation promotes binding of another molecule of MAD2L1 in the open conformation and the conversion of the open to the closed form, and thereby promotes interaction with CDC20.
翻訳後修飾	Phosphorylated on multiple serine residues. The level of phosphorylation varies during the cell cycle and is highest during mitosis. Phosphorylation abolishes interaction with MAD1L1 and reduces interaction with CDC20.
細胞内局在	Nucleus. Chromosome > centromere > kinetochore. Cytoplasm. Recruited by MAD1L1 to unattached kinetochores (Probable). Recruited to the nuclear pore complex by TPR during interphase. Recruited to kinetochores in late prometaphase after BUB1, CENPF, BUB1B and CENPE. Kinetochore association requires the presence of NEK2. Kinetochore association is repressed by UBD.

## 画像



Western blot - Anti-Mad2L1 antibody [17D10]  
(ab10691)

**All lanes :** Anti-Mad2L1 antibody [17D10] (ab10691) at 2 µg/ml

**Lane 1 :** Wild-type HAP1 whole cell lysate

**Lane 2 :** Mad2L1 knockout HAP1 whole cell lysate

**Lane 3 :** HeLa whole cell lysate

**Lane 4 :** A431 whole cell lysate

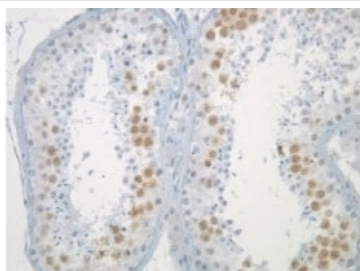
Lysates/proteins at 20 µg per lane.

**Predicted band size:** 24.6 kDa

**Observed band size:** 24 kDa

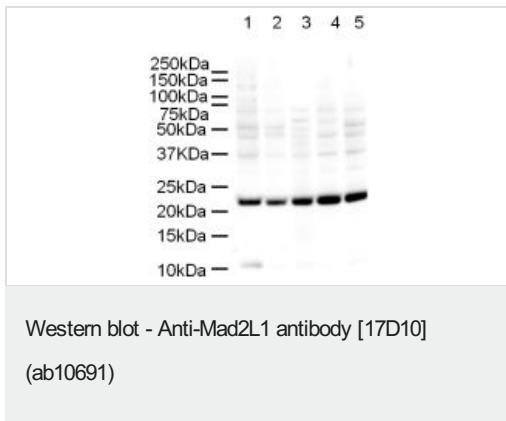
**Lanes 1 -4:** Merged signal (red and green). Green - ab10691 observed at 24 kDa. Red - loading control, **ab181602**, observed at 37 kDa.

ab10691 was shown to specifically react with in wild-type HAP1 cells as signal was lost in MAD2L1 knockout cells. Wild-type and MAD2L1 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% NF Milk. Ab10691 and **ab181602** (Rabbit anti GAPDH loading control) were incubated overnight at 4°C at 2 ug/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed **ab216772** and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed **ab216777** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Mad2L1 antibody [17D10]  
(ab10691)

ab10691 staining Mad2L1 in colon cancer tissue, after antigen retrieval, by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



Western blot using ab10691 at 1/500.

Lane 1: HeLa Nuclear

Lane 2: HeLa

Lane 3: A431

Lane 4: Jurkat

Lane 5: 293

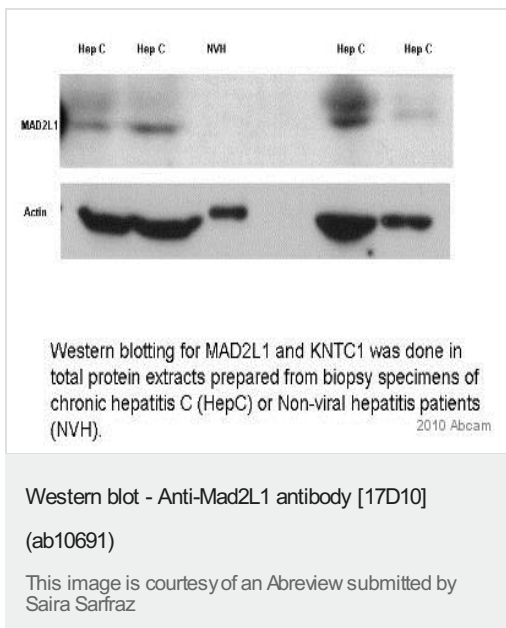
Mad2L1 predicted size: 24.6kD.

Secondary ab: Rabbit polyclonal to Mouse IgG H&L (HRP) **ab6728** (1/5000)

Exposure time: 1min

20µg of lysate per lane.

Western blot using ab10691 at 1/500. Lane 1: HeLa Nuclear Lane 2: HeLa Lane 3: A431 Lane 4: Jurkat Lane 5: 293 Mad2L1 predicted size: 24.6kD. Secondary ab: **anti-mouse HRP (ab6728)** (1/5000) Exposure time: 1min 20µg of lysate per lane.



Mad2L1 antibody (ab10691) at 1/1000 (in TBS for 90 minutes at 22°C) + whole tissue lysate of Human liver biopsy (chronic hepatitis C - (HepC) or non-viral (NVH)) patients at 50µg.

**Secondary Antibody:** An HRP-conjugated Goat anti-mouse polyclonal (1/100000).

**Blocking Step:** 5% Milk for 16 hours at 4°C

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