




### Anti-HDAC2 antibody ab7029

★★★★★ [17 Abreviews](#) [113 References](#) [画像数 3](#)

#### 製品の概要

製品名	Anti-HDAC2 antibody
製品の詳細	Rabbit polyclonal to HDAC2
由来種	Rabbit
アプリケーション	<b>適用あり:</b> IP, ICC/IF
種交差性	<b>交差種:</b> Human <b>交差が予測される動物種:</b> Rat, Chicken 
免疫原	Synthetic peptide corresponding to Human HDAC2 aa 471-488 conjugated to Keyhole Limpet Haemocyanin (KLH). The epitope recognized by the antibody is resistant to routine formalin-fixation and paraffin-embedding. Sequence: C-SGEKTDTKGTKSEQLSNP <div>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </div>
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	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 1% BSA
精製度	IgG fraction
特記事項 (精製)	Whole antiserum is fractionated and further purified by anion-exchange chromatography to provide the IgG fraction of antiserum that is essentially free of other rabbit serum proteins.

ポリモノ  
アイソタイプ

ポリクローナル  
IgG

## アプリケーション

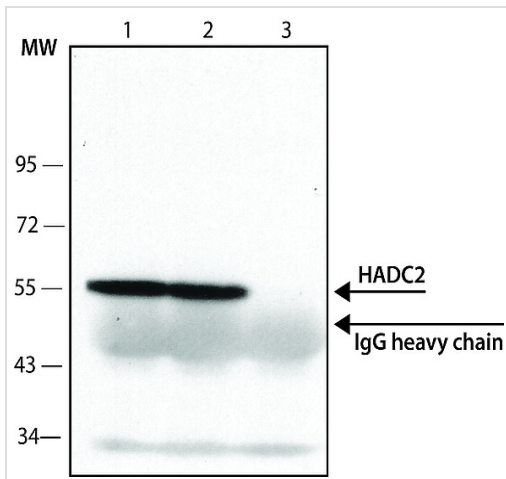
**The Abpromise guarantee**      **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab7029の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IP		Use at an assay dependent concentration.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.

## ターゲット情報

機能	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Forms transcriptional repressor complexes by associating with MAD, SIN3, YY1 and N-COR. Interacts in the late S-phase of DNA-replication with DNMT1 in the other transcriptional repressor complex composed of DNMT1, DMAP1, PCNA, CAF1. Deacetylates TSHZ3 and regulates its transcriptional repressor activity.
組織特異性	Widely expressed; lower levels in brain and lung.
配列類似性	Belongs to the histone deacetylase family. HD type 1 subfamily.
翻訳後修飾	S-nitrosylated by GAPDH. In neurons, S-Nitrosylation at Cys-262 and Cys-274 does not affect the enzyme activity but abolishes chromatin-binding, leading to increases acetylation of histones and activate genes that are associated with neuronal development. In embryonic cortical neurons, S-Nitrosylation regulates dendritic growth and branching.
細胞内局在	Nucleus.

## 画像



Immunoprecipitation - Anti-HDAC2 antibody (ab7029)

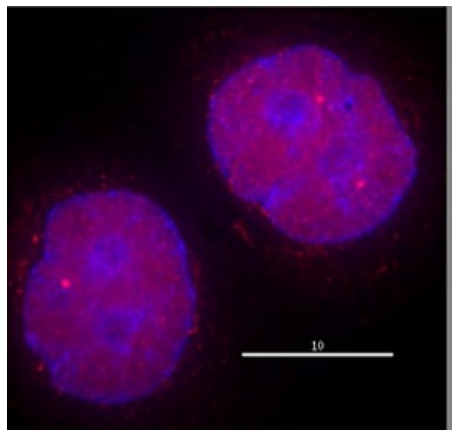
Immunoprecipitation analysis of HeLa whole cell lysates, ab7029 was used to precipitate HDAC3 from solution.

**Lane 1 :** Anti-HDAC2 antibody (ab7029) at 5  $\mu$ l

**Lane 2 :** Anti-HDAC2 antibody (ab7029) at 10  $\mu$ l

**Lane 3 :** Negative Control

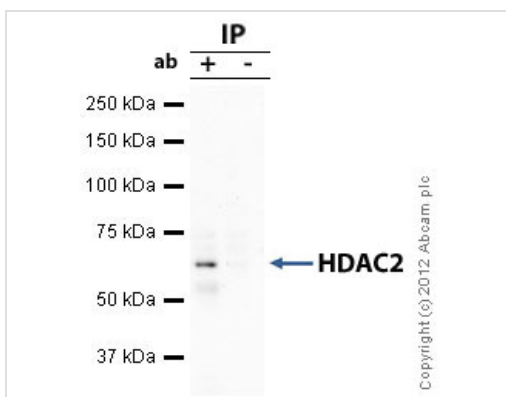
**All lanes :** HeLa whole cell lysate.



Immunocytochemistry/ Immunofluorescence - Anti-HDAC2 antibody (ab7029)

This image is courtesy of Michael Mancini, Baylor College of Medicine

HeLa cells were fixed with 4% formaldehyde in PEM buffer. The coverslip was incubated in blocking buffer of 5% powdered milk in TBS-T plus 0.02% sodium azide for 1 hour at room temperature. Blocking buffer was removed and primary antibody was added at a dilution of 1/600 and incubated overnight at 4 degrees celsius. The coverslips were then washed 4-5 times with blocking buffer for 5 minutes. Secondary antibody, goat anti-rabbit Alexa 594, was added at a dilution of 1/1000 and incubated at room temperature for one hour. From this point on coverslips were covered with foil to protect them from light. They were washed 5 times with TBS-T and then one time with PEM, for 5 minutes each wash. The coverslips were fixed 10-30 minutes in 4% formaldehyde in PEM buffer, then washed 3 times with PEM buffer for 5 minutes. 0.1M ammonium chloride in PEM buffer was added for 10 minutes to quench auto-fluorescence, and then slips were washed 2 times for 5 minutes in PEM followed by 3 washes for 5 minute



Immunoprecipitation - Anti-HDAC2 antibody (ab7029)

HDAC2 was immunoprecipitated using 0.5mg HeLa whole cell extract, 5 $\mu$ g of Rabbit polyclonal to HDAC2 and 50 $\mu$ l of protein G magnetic beads (+). No antibody was added to the control (-). The antibody was incubated under agitation with Protein G beads for 10min, HeLa whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40 $\mu$ l SDS loading buffer and incubated for 10min at 70°C; 10 $\mu$ l of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab7029.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to

Rabbit IgG light chain (HRP) ([\*\*ab99697\*\*](#)).

Band: Band: 60ka: HDAC2; 55kDa; Heavy Chain.

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

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