abcam

Product datasheet

Anti-HDAC7 (phospho S318) antibody ab72172

1 References　画像数 2

製品の概要

製品名	Anti-HDAC7 (phospho S318) antibody
製品の詳細	Rabbit polyclonal to HDAC7 (phospho S318)
特異性	Specifically reacts with HDAC7 when phosphorylated at Serine 318. Does not cross-react with non-phosphorylated HDAC7.
アプリケーション	**適用あり:** WB, ICC/IF
種交差性	**交差種:** Horse, Cow, Dog, Human, Chimpanzee, Monkey, Zebrafish **交差が予測される動物種:** Mouse, Rat, Chicken
免疫原	A synthetic peptide containing phospho-serine 318 of human HDAC7
ポジティブ・コントロール	HDAC7 recombinant fusion protein containing a phosphorylated serine at position 318.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.05% Sodium Azide Constituents: 0.05% BSA, PBS
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our Abpromise guarantee covers the use of **ab72172** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 0.1 - 1 µg/ml. Detects a band of approximately 31 kDa (predicted molecular weight: 103 kDa).

アプリケーション	Abreviews	特記事項
ICC/IF		Use a concentration of 5 µg/ml.

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. Involved in muscle maturation by repressing transcription of myocyte enhancer factors such as MEF2A, MEF2B and MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors (By similarity). May be involved in Epstein-Barr virus (EBV) latency, possibly by repressing the viral BZLF1 gene.

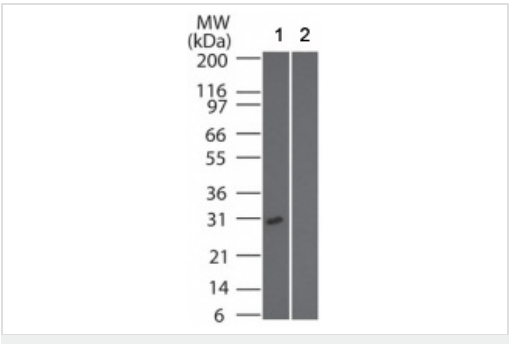
配列類似性 Belongs to the histone deacetylase family. HD type 2 subfamily.

ドメイン The nuclear export sequence mediates the shuttling between the nucleus and the cytoplasm.

翻訳後修飾 May be phosphorylated by CaMK1. Phosphorylated by the PKC kinases PKN1 and PKN2, impairing nuclear import.

細胞内局在 Nucleus. Cytoplasm. In the nucleus, it associates with distinct subnuclear dot-like structures. Shuttles between the nucleus and the cytoplasm. Treatment with EDN1 results in shuttling from the nucleus to the perinuclear region. The export to cytoplasm depends on the interaction with the 14-3-3 protein YWHAE and may be due to its phosphorylation.

画像



Western blot - HDAC7 (phospho S318) antibody (ab72172)

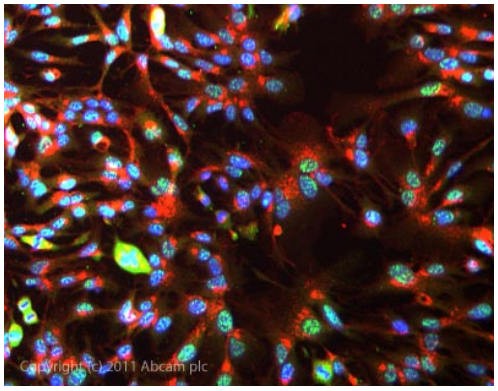
All lanes : Anti-HDAC7 (phospho S318) antibody (ab72172) at 0.1 µg/ml

Lane 1 : HDAC7 recombinant fusion protein containing a phosphorylated serine at position 318

Lane 2 : HDAC7 recombinant fusion protein containing an unphosphorylated serine at position 318

Predicted band size : 103 kDa

Observed band size : 31 kDa



Immunocytochemistry/ Immunofluorescence - Anti-HDAC7 (phospho S318) antibody (ab72172)

ICC/IF image of ab72172 stained HepG2 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab72172, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899 Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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