abcam

Product datasheet

Recombinant human HDAC5 protein ab80351

製品の詳細

製品名	Recombinant human HDAC5 protein
生理活性	Specific Activity: ≥1000 pmol/min/µg. Unit Definition: One U =1 pmol of acetyl group removed/min/µg of enzyme. Assay Conditions: 25 mM Tris HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM $MgCl_2$, and 0.1 mg/ml BSA, 30 µM HDAC class 2a substrate, and HDAC5. Incubation condition: 30 min at 30°C, followed by HDAC developer for 15 min at room temperature. Fluorescence intensity is measured at ex360/em460.
精製度	> 50 % SDS-PAGE. Affinity purified.
発現系	Baculovirus infected insect cells
アクセッション番号	Q9UQL6
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
予測される分子量	51 kDa
領域	656 to 1122
タグ	His tag C-Terminus

特性

Our **Abpromise guarantee** covers the use of **ab80351** 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	SDS-PAGE
製品の状態	Liquid

前処理および保存

保存方法および安定性	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00

Constituents: 0.79% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.8004% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

関連情報

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 MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors.
組織特異性	Ubiquitous.
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	Phosphorylated by CaMK at Ser-259 and Ser-498. The phosphorylation is required for the export to the cytoplasm. Phosphorylated by the PKC kinases PKN1 and PKN2, impairing nuclear import. Ubiquitinated. Polyubiquitination however does not lead to its degradation.
細胞内局在	Nucleus. Cytoplasm. Shuttles between the nucleus and the cytoplasm. In muscle cells, it shuttles into the cytoplasm during myocyte differentiation. The export to cytoplasm depends on the interaction with a 14-3-3 chaperone protein and is due to its phosphorylation at Ser-259 and Ser-498 by CaMK.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.co.jp/abpromise** or contact our technical team.

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