abcam

Product datasheet

Recombinant human HDAC9 protein ab80350

画像数 2

製品の詳細

製品名	Recombinant human HDAC9 protein
生理活性	Specific Activity: >1000 U/ug. One U =1pmol/min. Assay condition: 25 mM Tris/Cl, pH8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM $MgCl_2$, and 0.1 mg/ml BSA, 20 uM BPS HDAC substrate, and 0.2 ng/ul HDAC9. Incubation condition: 30 min at 37ºC.
精製度	> 95 % SDS-PAGE. Affinity purified.
発現系	Baculovirus infected Sf9 cells
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
領域	604 to 1066

特性

Our **Abpromise guarantee** covers the use of **ab80350** 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	Functional Studies 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: 0.395% Tris HCl, 0.05% Tween, 50% 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

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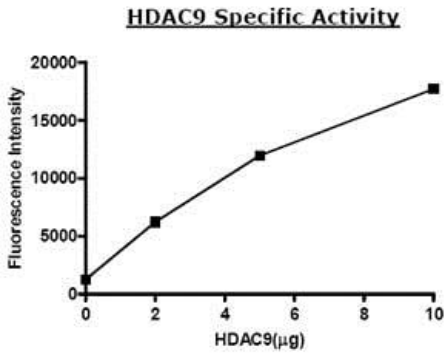
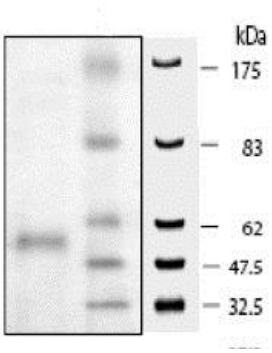
機能	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Represses MEF2-dependent transcription. Isoform 3 lacks active site residues and therefore is catalytically inactive. Represses MEF2-dependent transcription by recruiting HDAC1 and/or HDAC3. Seems to inhibit skeletal myogenesis and to be involved in heart development. Protects neurons from apoptosis, both by inhibiting JUN phosphorylation by MAPK10 and by repressing JUN transcription via HDAC1 recruitment to JUN promoter.
組織特異性	Broadly expressed, with highest levels in brain, heart, muscle and testis. Isoform 3 is present in human bladder carcinoma cells (at protein level).
関連疾患	Note=A chromosomal aberration involving HDAC9 is found in a family with Peters anomaly. Translocation t(1;7)(q41;p21) with TGFB2 resulting in lack of HDAC9 protein.
配列類似性	Belongs to the histone deacetylase family. HD type 2 subfamily.
翻訳後修飾	Phosphorylated on Ser-220 and Ser-450; which promotes 14-3-3-binding, impairs interaction with MEF2, and antagonizes antimyogenic activity. Phosphorylated on Ser-240; which impairs nuclear accumulation (By similarity). Isoform 7 is phosphorylated on Tyr-1010. Phosphorylated by the PKC kinases PKN1 and PKN2, impairing nuclear import. Sumoylated.
細胞内局在	Nucleus.

画像



Functional Studies - Recombinant human HDAC9 protein (ab80350)

Image showing specific activity of ab80350.



SDS-PAGE - Recombinant human HDAC9 protein (ab80350)

10% SDS-PAGE showing ab80350 at approximately 50.7kDa (3µg).

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

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