

## Product datasheet

# Recombinant human HDAC2 protein ab42630

### 概述

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产品名称	重组人HDAC2蛋白
蛋白长度	Full length protein

### 描述

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性质	Recombinant
来源	Baculovirus infected Sf9 cells

### 氨基酸序列

种属	Human
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### 技术指标

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Our [Abpromise guarantee](#) covers the use of **ab42630** in the following tested applications.

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

生物活性	Activity: 1100 U/ug. One U =1 pmol/min, Assay condition: 25 mM Tris/Cl, pH8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl <sub>2</sub> , and 0.1 mg/ml BSA, 100 uM Biomol substrate (Catalog number K1177), and 0.5 ng/ul HDAC2. Incubation condition: 20 min at 30 °C.
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应用	Inhibition Assay
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形式	Liquid
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补充说明	Expressed in a Baculovirus infected Sf9 cell expression system.
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### 制备和贮存

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稳定性和存储	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Preservative: None Constituents: 10% Glycerol, 50mM Tris HCl, 20mM Glutathione, 138mM Sodium chloride, pH 8 This product is an active protein and may elicit a biological response in vivo, handle with caution.
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### 常规信息

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功能	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones
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(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.

**组织特异性**

Widely expressed; lower levels in brain and lung.

**序列相似性**

Belongs to the histone deacetylase family. HD type 1 subfamily.

**翻译后修饰**

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.

**细胞定位**

Nucleus.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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