

# Recombinant human HDAC3 protein ab101663

5 Images

### Description

<b>Product name</b>	Recombinant human HDAC3 protein
<b>Biological activity</b>	Specific activity 125 RLU/min/ng.
<b>Purity</b>	> 70 % SDS-PAGE. ab101663 is >70% pure as assessed by densitometry. Affinity purified.
<b>Expression system</b>	Baculovirus infected insect cells
<b>Accession</b>	<b><u>O15379</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Predicted molecular weight</b>	83 kDa including tags
<b>Amino acids</b>	1 to 428

### Specifications

Our **Abpromise guarantee** covers the use of **ab101663** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE Functional Studies
<b>Form</b>	Liquid

### Preparation and Storage

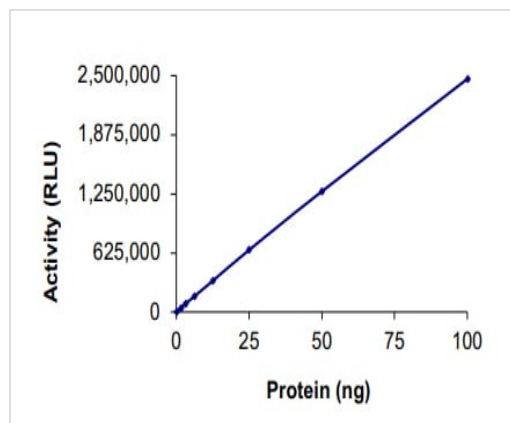
<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.307% Glutathione, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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### General Info

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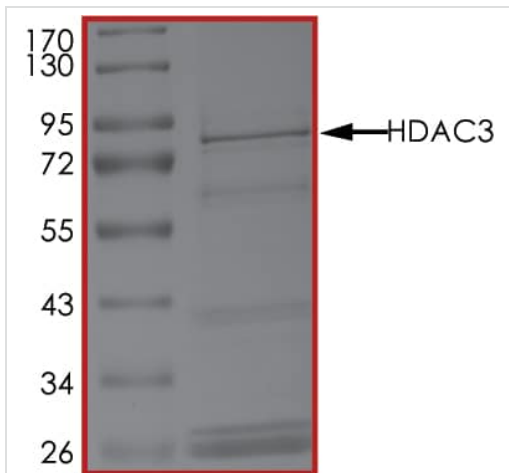
<b>Function</b>	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Probably participates in the regulation of transcription through its binding to the zinc-finger transcription factor YY1; increases YY1 repression activity. Required to repress transcription of the POU1F1 transcription factor. Acts as a molecular chaperone for shuttling phosphorylated NR2C1 to PML bodies for sumoylation.
<b>Tissue specificity</b>	Widely expressed.
<b>Sequence similarities</b>	Belongs to the histone deacetylase family. HD type 1 subfamily.
<b>Post-translational modifications</b>	Sumoylated in vitro.
<b>Cellular localization</b>	Nucleus.

## Images



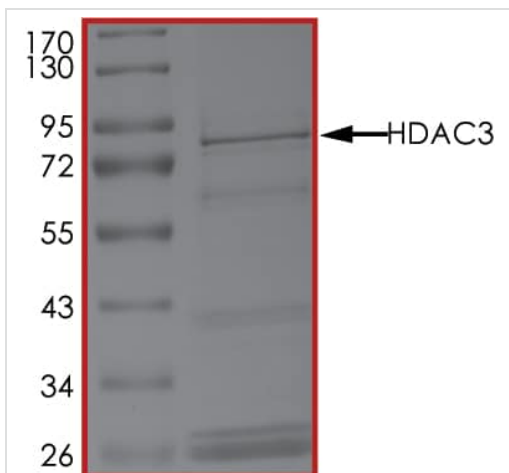
The specific activity of HDAC3 (ab101663) was determined to be 144 RLU/min/mg as per activity assay protocol

Functional Studies - Recombinant human HDAC3 protein (ab101663)



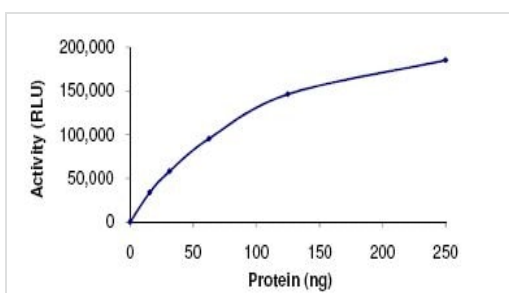
SDS PAGE analysis of ab101663

SDS-PAGE - Recombinant human HDAC3 protein  
(ab101663)



SDS PAGE analysis of ab101663

SDS-PAGE - Recombinant human HDAC3 protein  
(ab101663)



The specific activity of ab101663 was determined to be 125 RLU/min/ng.

Functional Studies - Recombinant human HDAC3  
protein (ab101663)



SDS-PAGE - Recombinant human HDAC3 protein  
(ab101663)

The purity of HDAC3 was determined to be >70% as assessed by densitometry.

The approximate molecular weight is ~83 kDa.

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

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