

# Recombinant human SIRT2 protein ab101132

[5 Images](#)

### Description

<b>Product name</b>	Recombinant human SIRT2 protein
<b>Biological activity</b>	Specific Activity: 8000 RLU/min/ng.
<b>Purity</b>	> 70 % Densitometry. The purity of SIRT2 was determined to be > 70% by densitometry. Affinity purified.
<b>Expression system</b>	Baculovirus infected insect cells
<b>Accession</b>	<u><b>Q8IXJ6-2</b></u>
<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>	42 kDa including tags
<b>Amino acids</b>	2 to 352
<b>Tags</b>	His tag N-Terminus

### Specifications

Our **Abpromise guarantee** covers the use of **ab101132** in the following tested applications.

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

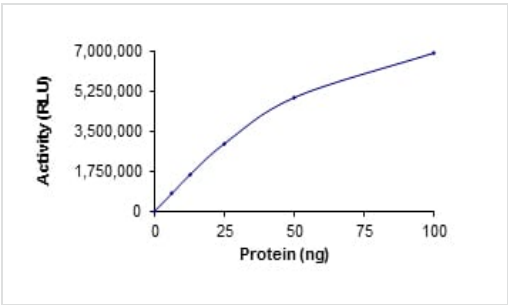
<b>Applications</b>	SDS-PAGE Functional Studies
<b>Form</b>	Liquid

### 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: 7.00 Preservative: 1.02% Imidazole Constituents: 0.00174% PMSF, 0.82% Sodium phosphate, 0.00385% DTT, 25% Glycerol (glycerin, glycerine), 1.74% Sodium chloride  This product is an active protein and may elicit a biological response in vivo, handle with caution.
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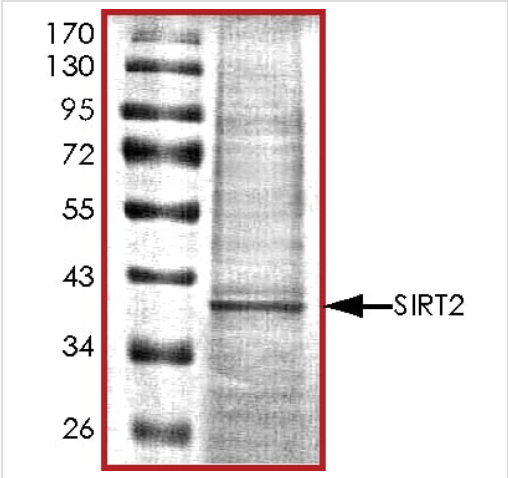
<b>General Info</b>	
<b>Function</b>	NAD-dependent protein deacetylase, which deacetylates the 'Lys-40' of alpha-tubulin. Involved in the control of mitotic exit in the cell cycle, probably via its role in the regulation of cytoskeleton.
<b>Tissue specificity</b>	Widely expressed. Highly expressed in heart, brain and skeletal muscle, while it is weakly expressed in placenta and lung. Down-regulated in many gliomas suggesting that it may act as a tumor suppressor gene in human gliomas possibly through the regulation of microtubule network.
<b>Sequence similarities</b>	Belongs to the sirtuin family. Contains 1 deacetylase sirtuin-type domain.
<b>Developmental stage</b>	Peaks during mitosis. After mitosis, it is probably degraded by the 26S proteasome.
<b>Post-translational modifications</b>	Phosphorylated at the G2/M transition of the cell cycle.
<b>Cellular localization</b>	Cytoplasm > cytoskeleton. Colocalizes with microtubules.

Images



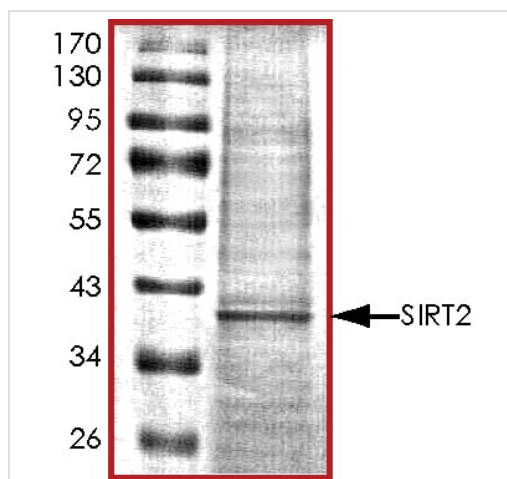
The specific activity of SIRT2 (ab101132) was determined to be 7200 RLU/min/mg as per activity assay protocol

Functional Studies - Recombinant human SIRT2 protein (ab101132)



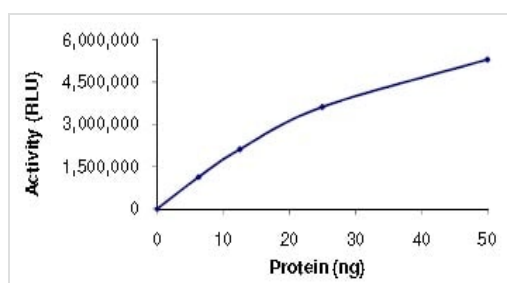
SDS PAGE analysis of ab101132

SDS-PAGE - Recombinant human SIRT2 protein (ab101132)



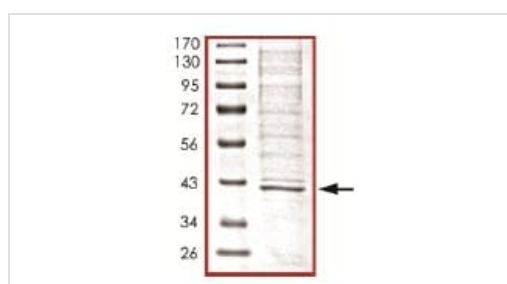
SDS PAGE analysis of ab101132

SDS-PAGE - Recombinant human SIRT2 protein (ab101132)



The Specific activity of ab101132 was determined to be 8000 RLU/min/mg.

Functional Studies - Recombinant human SIRT2 protein (ab101132)



SDS-PAGE showing ab101132 at approximately 42kDa.

SDS-PAGE - Recombinant human SIRT2 protein (ab101132)

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

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