



[Go to Product page](#)

Datasheet for ABIN768568

## anti-SIRT3 antibody (Internal Region)

### 3 Images

#### Overview

Quantity:	100 µg
Target:	SIRT3
Binding Specificity:	Internal Region
Reactivity:	Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This SIRT3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS)

#### Product Details

Purpose:	Sirtuin 3 (mouse)
Immunogen:	Peptide with sequence C-RASGIPASKLVEAH, from the internal region of the protein sequence according to NP_071878.2, NP_001171275.1.
Sequence:	RASGIPASKL VEAH
Isotype:	IgG
Specificity:	This antibody is expected to recognize both reported isoforms (NP_071878.2, NP_001171275.1). Reported variants represent identical proteins: NP_071878.2, NP_001120823.1
Cross-Reactivity:	Human, Mouse, Pig, Rat
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity

## Product Details

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chromatography using the immunizing peptide.

Grade: Verified

## Target Details

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Target: SIRT3

Alternative Name: Sirt3 ([SIRT3 Products](#))

Background: Sirt3, sirtuin 3, sirtuin 3 (silent mating type information regulation 2, homolog) 3, 2310003L23Rik, AI848213, Sir2l3, NAD-dependent deacetylase sirtuin-3, OTTMUSP00000027441, OTTMUSP00000027442, OTTMUSP00000027444, OTTMUSP00000027445, SIR2-like protein 3

Molecular Weight: 28.8kDa according to NP\_071878.2

Gene ID: 23410, 64384, 293615

NCBI Accession: [NP\\_071878](#), [NP\\_001171275](#)

## Application Details

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Application Notes: Western Blot: Approx 30 kDa band observed in Mouse Heart lysates (calculated MW of 28.8 kDa according to NP\_071878.2). An additional band of unknown identity was also consistently observed at 15 kDa. This band was successfully blocked by incubation with the Peptide ELISA: antibody detection limit dilution 1:64000.

Comment: **Immunofluorescence:** Strong expression of the protein seen in the cytoplasm of NIH3T3 cells. Recommended concentration: 10µg/ml.  
**Flow Cytometry:** Flow cytometric analysis of NIH3T3 cells. Recommended concentration: 10ug/

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 0.5 mg/mL

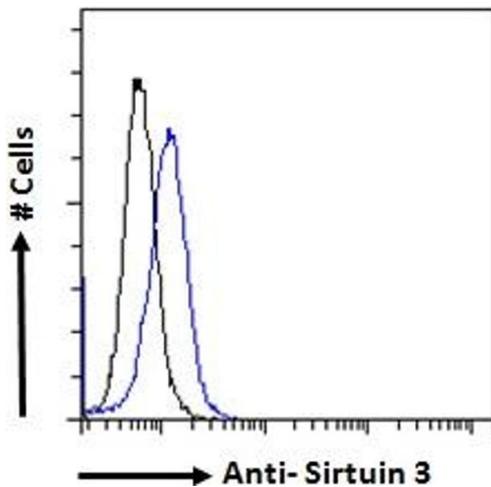
Buffer: Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.

Preservative: Sodium azide

## Handling

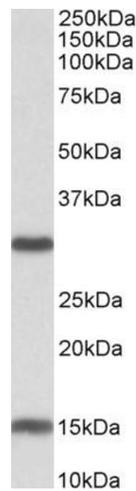
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Minimize freezing and thawing.
Storage:	-20 °C
Storage Comment:	Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

## Images



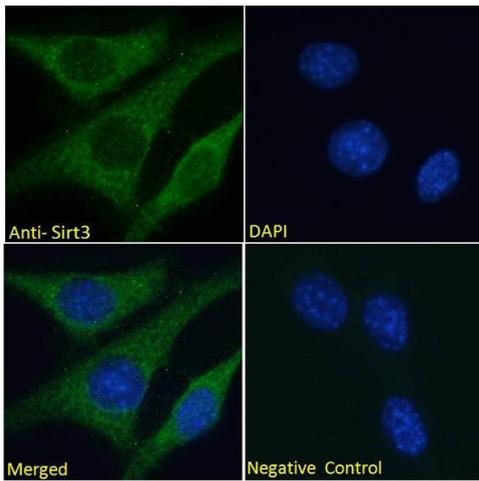
### Flow Cytometry

**Image 1.** ABIN768568 Flow cytometric analysis of paraformaldehyde fixed NIH3T3 cells (blue line), permeabilized with 0.5% Triton, showing a low level of staining. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Un



### Western Blotting

**Image 2.** ABIN768568 (0.3µg/ml) staining of Mouse Heart lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



### Immunofluorescence

**Image 3.** ABIN768568 Immunofluorescence analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).