

## Anti-SIRT3 Rabbit pAb



WL03840

For Research Use Only. Not For Use In Diagnostic Procedures

## Product Information

<b>Product name</b>	Anti-SIRT3 Rabbit pAb	
<b>Source</b>	Rabbit	
<b>Species reactivity</b>	Human, Mouse, Rat	
<b>Tested applications</b>	WB	1:1000-1:2000
	IHC	1:500
	IF	1:200
<b>Cellular localization</b>	Mitochondrion matrix	
<b>Pack size</b>	50/100/200/500/1000µl	
<b>Storage</b>	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>	
<b>Storage buffer</b>	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide	

## General Information

## Background

The Silent Information Regulator (SIR2) family of genes is a highly conserved group of genes that encode nicotinamide adenine dinucleotide (NAD)-dependent protein deacetylases, also known as Class III histone deacetylases. SirT3, a mammalian homolog of Sir2, exists in human cells in two forms. Full-length SirT3 protein is processed in the mitochondrial matrix by the mitochondrial matrix processing peptidase (MMP). Both full-length and processed forms of SirT3 are enzymatically active and deacetylate histone H3 at Lys9 and histone H4 at Lys16 in vitro. SirT3 also deacetylates Lys642 of acetyl-CoA synthetase 2 (AceCS2) and activates AceCS2 activity in the mitochondria.

## Immunogen

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of SIRT3.

## Purification

Polyclonal antibody was purified by Protein A affinity chromatography.

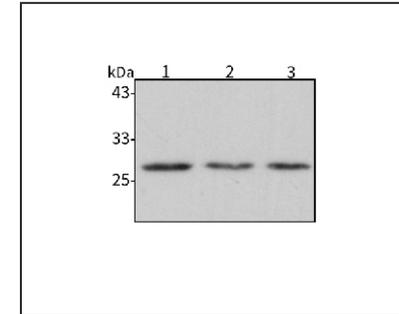
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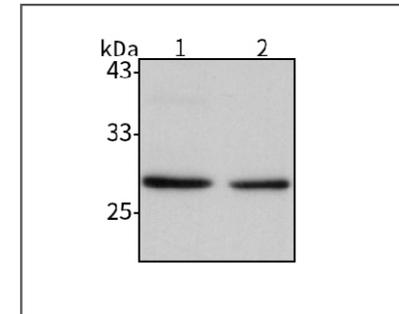
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## Product Images



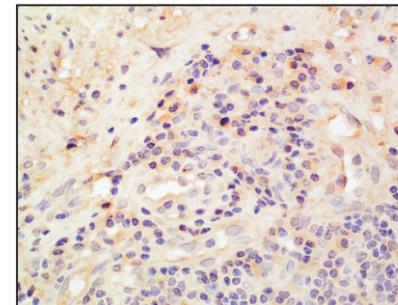
## Western blot-Anti-SIRT3 pAb

**Lane 1:** Human CAL-27 cell lysate  
**Lane 2:** Human Calu-3 cell lysate  
**Lane 3:** Human THP-1 cell lysate  
**All lanes:** Anti-SIRT3 at 1:1000 dilution  
 Lysates/proteins at 20-50 µg per lane.  
 Predicted band size: 43 kDa  
 Observed band size: 28 kDa



## Western blot-Anti-SIRT3 pAb

**Lane 1:** Mouse spleen tissue lysate  
**Lane 2:** Rat lung tissue lysate  
**All lanes:** Anti-SIRT3 at 1:1000 dilution  
 Lysates/proteins at 20-50 µg per lane.  
 Predicted band size: 43 kDa  
 Observed band size: 28 kDa



## Immunohistochemistry-Anti-SIRT3 pAb

Immunohistochemical analysis of paraffin-embedded human esophagus cancer using anti-SIRT3 Rabbit Antibody at 1:500 dilution. Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

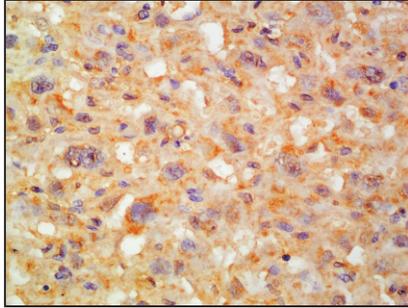
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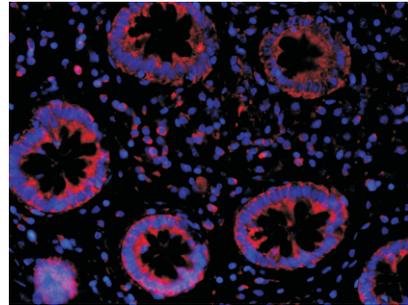
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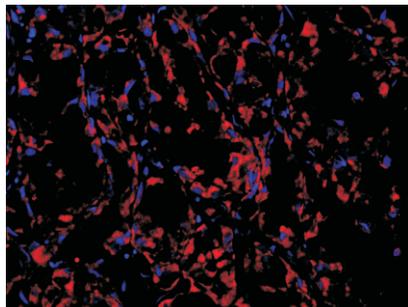
#### Immunohistochemistry-Anti-SIRT3 pAb

Immunohistochemical analysis of paraffin-embedded rat placenta using anti-SIRT3 Rabbit Antibody at 1:500 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunofluorescence-Anti-SIRT3 pAb

Immunofluorescence analysis of paraffin-embedded human colon cancer using anti-SIRT3 Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunofluorescence-Anti-SIRT3 pAb

Immunofluorescence analysis of paraffin-embedded human kidney cancer using anti-SIRT3 Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

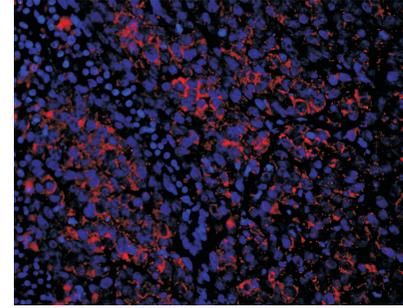
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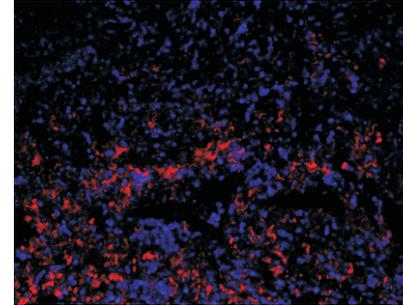
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### Product Images



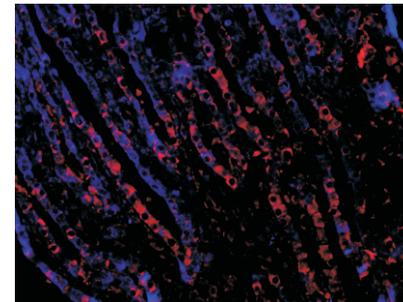
#### Immunofluorescence-Anti-SIRT3 pAb

Immunofluorescence analysis of paraffin-embedded human skin cancer using anti-SIRT3 Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunofluorescence-Anti-SIRT3 pAb

Immunofluorescence analysis of paraffin-embedded mouse spleen using anti-SIRT3 Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunofluorescence-Anti-SIRT3 pAb

Immunofluorescence analysis of paraffin-embedded mouse kidney using anti-SIRT3 Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

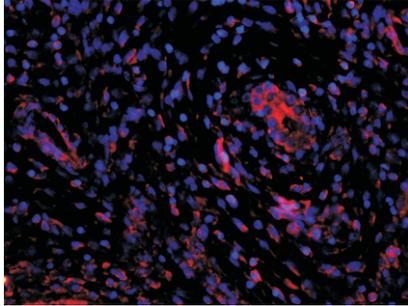
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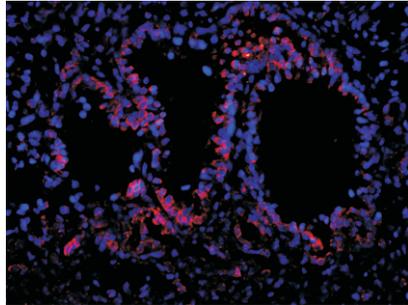
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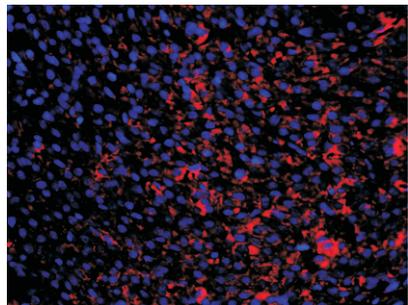
#### Immunofluorescence-Anti-SIRT3 pAb

Immunofluorescence analysis of paraffin-embedded rat uterus using anti-SIRT3 Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunofluorescence-Anti-SIRT3 pAb

Immunofluorescence analysis of paraffin-embedded rat lung using anti-SIRT3 Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunofluorescence-Anti-SIRT3 pAb

Immunofluorescence analysis of paraffin-embedded rat ovary using anti-SIRT3 Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

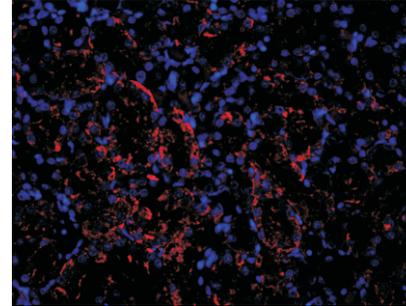
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#### Immunofluorescence-Anti-SIRT3 pAb

Immunofluorescence analysis of paraffin-embedded rat kidney using anti-SIRT3 Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0