

Anti-SIRT3 Rabbit pAb



WL03840

For Research Use Only. Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-SIRT3 Rabbit pAb	
Source	Rabbit	
Species reactivity	Human, Mouse, Rat	
Tested applications	WB	1:1000-1:2000
	IHC	1:500
	IF	1:200

Cellular localization Mitochondrion matrix

Pack size 50/100/200/500/1000μl

Storage Store at -20°C. **Avoid freeze/thaw cycles.**

Storage buffer 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.

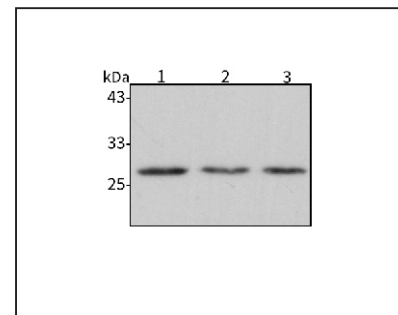
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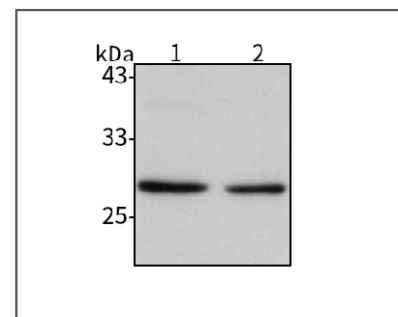
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Product Images



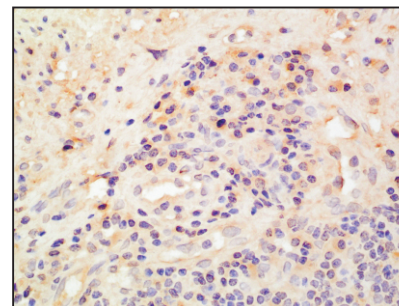
Western blot-Anti-SIRT3 pAb

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

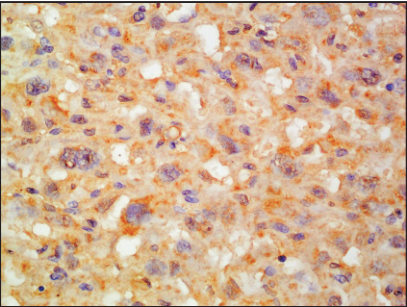
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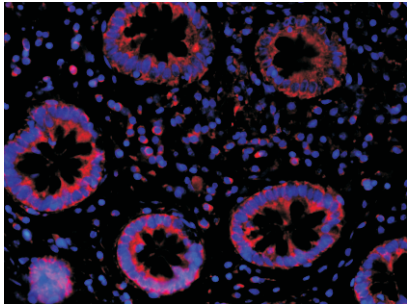


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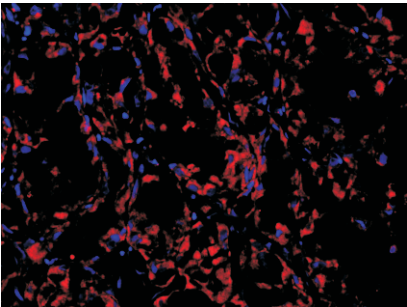
Immunohistochemistry-Anti-SIRT3 pAb

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 using anti-SIRT3 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

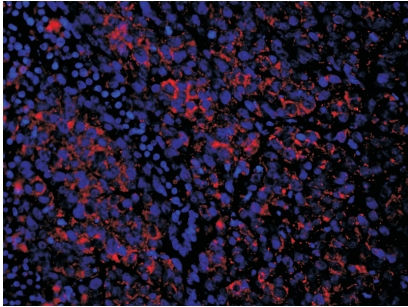
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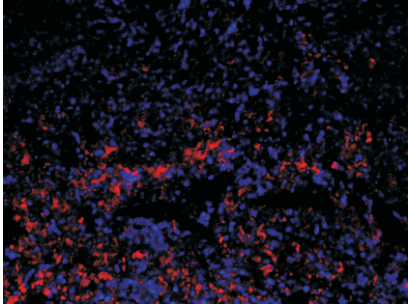


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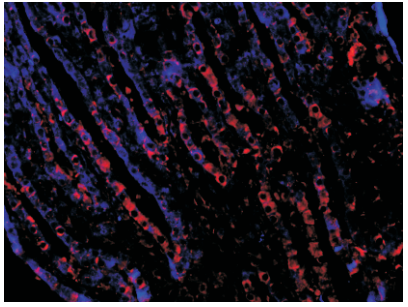
Immunofluorescence-Anti-SIRT3 pAb

Immunofluorescence analysis of paraffin-embedded 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

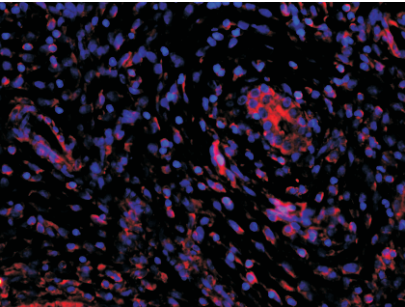
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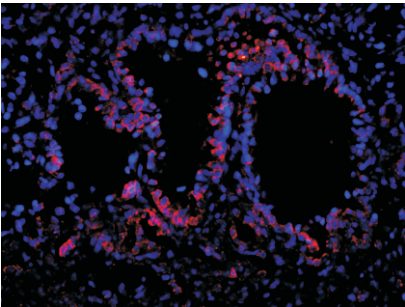
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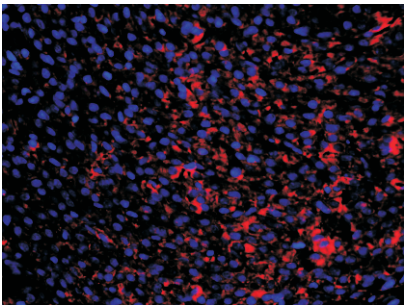
Immunofluorescence-Anti-SIRT3 pAb

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

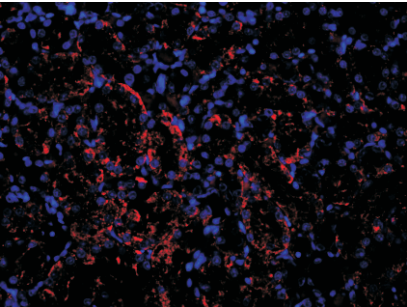
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Immunofluorescence-Anti-SIRT3 pAb

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