

For Research Use Only

# SIRT3 Recombinant antibody

Catalog Number: 82210-1-RR



## Basic Information

<b>Catalog Number:</b> 82210-1-RR	<b>GenBank Accession Number:</b> BC001042	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 980 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23410	<b>CloneNo.:</b> 2P6
<b>Source:</b> Rabbit	<b>Full Name:</b> sirtuin (silent mating type information regulation 2 homolog) 3 (S. cerevisiae)	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:200-1:800
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 44 kDa	
<b>Immunogen Catalog Number:</b> AG26280	<b>Observed MW:</b> 28-30 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : HeLa cells, rat heart tissue, HepG2 cells, HT-29 cells

**IHC** : human prostate cancer tissue,

## Background Information

Sirtuins are NAD<sup>+</sup>-dependent histone/protein deacetylases (HDAC) and SIRT3 is the only sirtuin whose increased expression has been shown to correlate with an extended life span in humans. It is localized in the mitochondrial matrix, where it regulates the acetylation levels of metabolic enzymes, including acetyl coenzyme A synthetase 2. SIRT3 is stress-responsive and its increased expression protects myocytes from genotoxic and oxidative stress-mediated cell death. full-length hSIRT3 (44 kDa) is an inert protein and that it is activated inside the mitochondria following deletion of 142 amino acids of the N-terminal segment. This processed form of SIRT3 is approximately 28 kDa and possesses deacetylase activity. The full SIRT3 is a 44 kDa protein and is processed by mitochondrial processing peptidase (MPP) to give a 28 kDa product.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

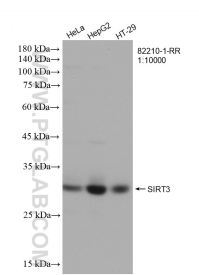
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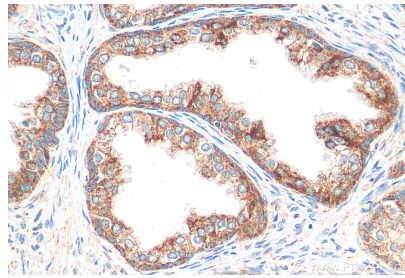
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82210-1-RR (SIRT3 antibody) at dilution of 1:19600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 82210-1-RR (SIRT3 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).