

For Research Use Only

# SIRT5 Recombinant antibody

Catalog Number: 82246-1-RR



## Basic Information

<b>Catalog Number:</b> 82246-1-RR	<b>GenBank Accession Number:</b> BC000126	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23408	<b>CloneNo.:</b> 7L20
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NXA8	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF/ICC 1:600-1:2400
<b>Isotype:</b> IgG	<b>Full Name:</b> sirtuin (silent mating type information regulation 2 homolog) 5 (S. cerevisiae)	
<b>Immunogen Catalog Number:</b> AG7195	<b>Calculated MW:</b> 34 kDa	
	<b>Observed MW:</b> 32-33 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HepG2 cells, A549 cells, Jurkat cells, HCT 116 cells <b>IF/ICC :</b> HeLa cells,

## Background Information

SIRT5, a member of sirtuin family that is a mitochondrial matrix NAD(+)-dependent deacetylase and mono-ADP-ribosyltransferases. Sirtuins play important role in various cellular processes, such as aging, gene silencing and metabolism. SIRT5 mainly locates in cytoplasm. It is an efficient protein lysine desuccinylase and demalonylase. During prolonged fasting, it can activate CPS1, the committed and regulated enzyme of the urea cycle, and this contributes to the regulation of blood ammonia levels.

## Storage

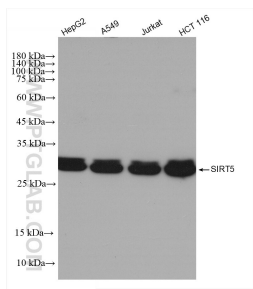
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

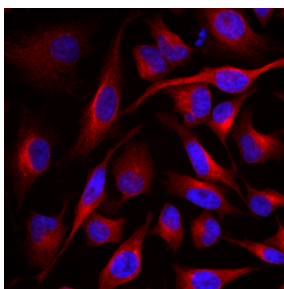
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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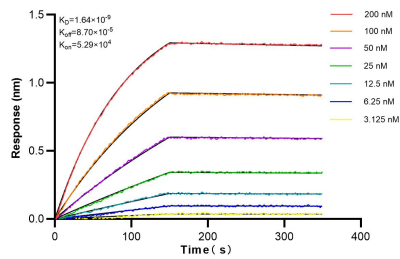
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82246-1-RR (SIRT5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SIRT5 antibody (82246-1-RR, Clone: 7L20 ) at dilution of 1:1200 and Multi-rAb CoraLite® Plus 594-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR004).



Biolayer interferometry (BLI) kinetic assays of 82246-1-RR against Human SIRT5 were performed. The affinity constant is 1.64 nM.