

For Research Use Only

# SIRT5 Monoclonal antibody

Catalog Number: 67257-1-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 67257-1-Ig	<b>GenBank Accession Number:</b> BC000126	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1800 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 23408	<b>CloneNo.:</b> 1F2B2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9NXA8	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:250-1:1000
<b>Isotype:</b> IgG2b	<b>Full Name:</b> sirtuin (silent mating type information regulation 2 homolog) 5 (S. cerevisiae)	
<b>Immunogen Catalog Number:</b> AG7743	<b>Calculated MW:</b> 34 kDa	
	<b>Observed MW:</b> 33 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF, IP	<b>WB :</b> HeLa cells, HEK-293 cells, L02 cells, LNCaP cells, K-562 cells
<b>Species Specificity:</b> Human	<b>IHC :</b> human liver cancer tissue, human heart tissue
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 . 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 contribute to the regulation of blood ammonia levels.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qichao Huang	35451091	EMBO J	WB
Chuan-Yi Zuo	39899130	Inflammation	WB,IF
Qifan Hu	37904651	Adv Sci (Weinh)	WB,IF,IP

## Storage

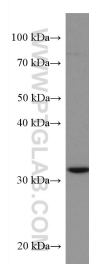
**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

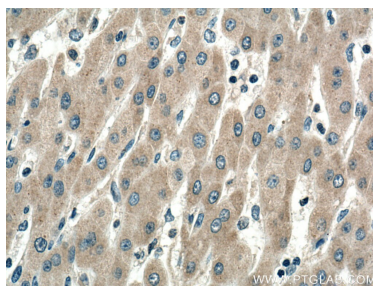
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E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 67257-1-Ig (SIRT5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67257-1-Ig (SIRT5 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).