

À des fins de recherche uniquement

# Anticorps Polyclonal de lapin anti-SIRT2



Numéro de catalogue: 19655-1-AP

Phare

45 Publications

## Informations de base

Numéro de catalogue:  
19655-1-AP

Taille:  
150ul, Concentration: 700 µg/ml by  
Nanodrop;

Hôte:  
Lapin

Isotype:  
IgG

Immunogen Catalog Number:  
AG7756

Numéro d'acquisition GenBank:  
BC003547

Identification du gène (NCBI):  
22933

Nom complet:  
sirtuin (silent mating type  
information regulation 2 homolog) 2  
(S. cerevisiae)

MW calculé

43 kDa

MW observés:

37-45 kDa

Méthode de purification:  
Purification par affinité contre  
l'antigène

Dilutions recommandées:  
WB 1:5000-1:50000  
IP 0.5-4.0 ug for IP and 1:500-1:1000  
for WB  
IHC 1:500-1:2000

## Applications

Applications testées:

IHC, IP, WB, ELISA

Demandes citées:

CoIP, IF, IHC, IP, WB

Spécificité de l'espèce:

Humain, rat, souris

Espèces citées:

bovin, Humain, poisson-zèbre, rat, souris

Contrôles positifs:

WB : tissu cérébral de souris, tissu cérébral de rat, tissu  
cérébral humain

IP : tissu cérébral de souris,

IHC : tissu cérébral de rat, tissu cardiaque humain,  
tissu cérébral de souris, tissu de muscle squelettique  
humain

**Remarque-IHC: il est suggéré de démasquer  
l'antigène avec un tampon de TE buffer pH  
9,0; (\*) A défaut, 'le démasquage de  
l'antigène peut être 'effectué avec un  
tampon citrate pH 6,0.**

## Informations générales

The Silent Information Regulator (SIRT2) 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. The first discovered and best characterized of these genes is *Saccharomyces cerevisiae* SIR2, which is involved in silencing of mating type loci, telomere maintenance, DNA damage response, and cell aging (10545947). SirT2, a mammalian homolog of Sir2, deacetylates  $\alpha$ -tubulin at Lys40 and histone H4 at Lys16 and has been implicated in cytoskeletal regulation and progression through mitosis (12620231,16648462). SirT2 protein is mainly cytoplasmic and is associated with microtubules and HDAC6, another tubulin deacetylase (12620231). Deacetylation of  $\alpha$ -tubulin decreases its stability and may be required for proper regulation of cell shape, intracellular transport, cell motility, and cell division (12620231,10966460). The abundance and phosphorylation state of SirT2 increase at the G2/M transition of the cell cycle, and SirT2 relocates to chromatin during mitosis when histone H4 Lys16 acetylation levels decrease (16648462,12697818). Overexpression of SirT2 prolongs mitosis, while overexpression of the CDC14B phosphatase results in both decreased phosphorylation and abundance of SirT2, allowing for proper mitotic exit (12697818). Thus, the deacetylation of both histone H4 and  $\alpha$ -tubulin by SirT2 may be critical for proper chromatin and cytoskeletal dynamics required for completion of mitosis. This antibody recognizes the 37-45 KD SIRT2 proteins. This antibody is a specific antibody that it can't detect signal with SIRT2-KO samples.

## Publications notables

Autrice	Pubmed ID	Journal	Application
Xiaodan Sun	31572453	Front Genet	IHC
Min Liu	28871079	Nat Commun	WB
Kelly A Chamberlain	34506725	Neuron	WB,IF

## Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

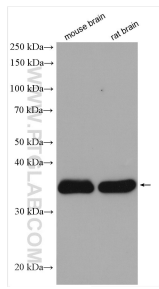
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

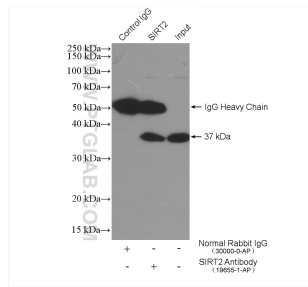
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

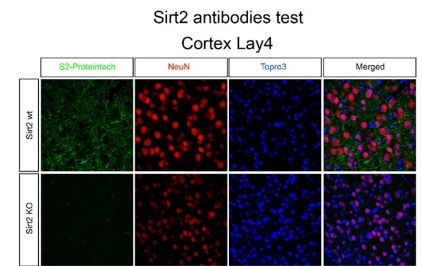
## Données de validation sélectionnées



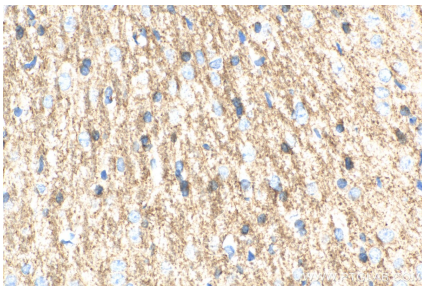
Various lysates were subjected to SDS PAGE followed by western blot with 19655-1-AP (SIRT2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-SIRT2-Specific (IP:19655-1-AP, 4ug; Detection:19655-1-AP 1:800) with mouse brain tissue lysate 4000 ug.



IF results of SIRT2 (19655-1-AP) antibody with cortex slides of SIRT2-WT and SIRT2-KO samples.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 19655-1-AP (SIRT2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).