

À des fins de recherche uniquement

Anticorps Monoclonal anti-SIRT1

Numéro de catalogue: 60303-1-Ig

Phare

43 Publications



Informations de base

| | | |
|---|--|--|
| Numéro de catalogue: 60303-1-Ig | Numéro d'acquisition GenBank: BC012499 | Méthode de purification: Purification par protéine A |
| Taille: 150ul, Concentration: 1800 µg/ml by Nanodrop and 1200 µg/ml by Bradford method using BSA as the standard; | Identification du gène (NCBI): 23411 | CloneNo.: 7F6G6 |
| Hôte: Mouse | Nom complet: sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae) | Dilutions recommandées: WB 1:5000-1:50000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB IHC 1:250-1:1000 IF 1:50-1:500 |
| Isotype: IgG2b | MW calculé: 747 aa, 82 kDa | |
| Immunogen Catalog Number: AG17677 | MW observés: 110-130 kDa | |

Applications

Applications testées:

IF, IHC, IP, WB, ELISA

Demandes citées:

CoIP, ELISA, IF, IHC, WB

Spécificité de l'espèce:

Humain

Espèces citées:

Humain, porc

Contrôles positifs:

WB : cellules A549, cellules HEK-293, cellules HeLa, cellules Jurkat, cellules LNCaP, cellules MCF-7

IP : cellules HeLa,

IHC : tissu de cancer du sein humain, tissu de côlon humain, tissu testiculaire humain

IF : cellules HeLa,

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

SIRT1, also named as SIRT2L1, contains a deacetylase sirtuin-type domain and belongs to the sirtuin family. The post-translation modified SIRT1 is a 110-130 kDa protein, which contains one deacetylase sirtuin-type domain. The 75-80 kDa SIRT1 fragment was detected to lack the carboxy-terminus (PMID:21305533). SIRT1 exists a 57-61 kDa isoform. SIRT1 may be found in nucleolus, nuclear euchromatin, heterochromatin and inner membrane. It can shuttle between nucleus and cytoplasm. SIRT1 regulates processes such as apoptosis and muscle differentiation by deacetylating key proteins. SIRT1 in particular initiates several signaling events relevant to cardioprotection, including: activation of endothelial nitric oxide synthase, INS receptor signaling, and autophagy. In addition SIRT1 activation elicits resistance to oxidative stress via regulation of transcription factors and co-activators such as FOXO, Hif-2a, and NF-κB. SIRT1 regulates the p53-dependent DNA damage response pathway by binding to and deacetylating p53, specifically at Lysine 382.

Publications notables

| Autrice | Pubmed ID | Journal | Application |
|----------------|-----------|----------------------|-------------|
| Jie Liu | 36238648 | Oxid Med Cell Longev | WB |
| Xin Peng | 34549339 | J Mol Neurosci | WB |
| ChuanCai Liang | 36064420 | J Orthop Surg Res | WB |

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.

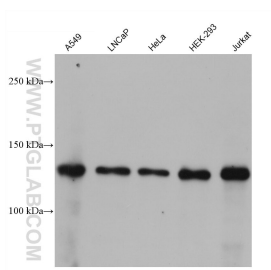
For technical support and original validation data for this product please contact:

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

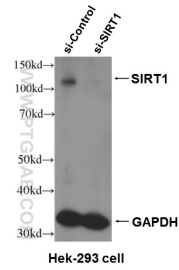
E: proteintech@ptglab.com
W: ptglab.com

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

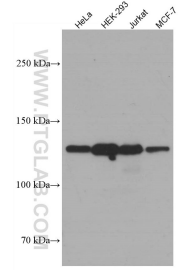
Données de validation sélectionnées



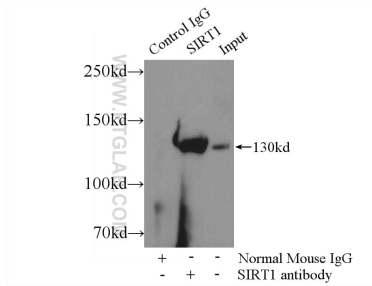
Various lysates were subjected to SDS PAGE followed by western blot with 60303-1-Ig (SIRT1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



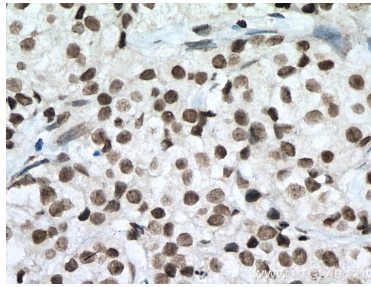
WB result of SIRT1 antibody (60303-1-Ig, 1:500) with si-Control and si-SIRT1 transfected HEK-293 cells.



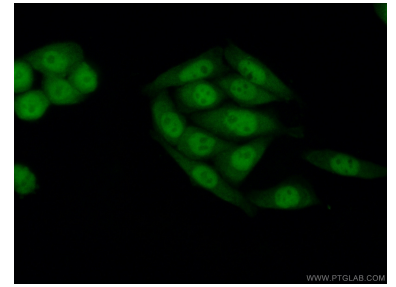
Various lysates were subjected to SDS PAGE followed by western blot with 60303-1-Ig (SIRT1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



IP Result of anti-SIRT1 (IP:60303-1-Ig, 5ug; Detection:60303-1-Ig 1:1000) with HeLa cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60303-1-Ig (SIRT1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 60303-1-Ig (SIRT1 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).