

Allgemeine Informationen

Katalog-Nr.:
60303-1-Ig

Größe:
150ul, Konzentration: 1800 µg/ml von 23411
Nanodrop und 1200 µg/ml durch die
Bradford-Methode mit BSA als
Standard;

Wirt:

Maus

Isotyp:

IgG2b

Immunogen Katalognummer:
AG17677

GenBank-Zugangsnummer:
BC012499

GeneID (NCBI):

Vollständiger Name:
sirtuin (silent mating type
information regulation 2 homolog) 1
(S. cerevisiae)

Berechnete Masse:

747 aa, 82 kDa

Beobachtete Masse:

110-130 kDa

Reinigungsmethode:
Protein-A-Reinigung

CloneNo.:

7F6G6

Empfohlene Verdünnungen:

WB 1:5000-1:50000

IP 0.5-4.0 µg für IP und 1:500-1:2000
für WB

IHC 1:250-1:1000

IF 1:50-1:500

Anwendungen

Geprüfte Anwendungen:

IF, IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:

CoIP, ELISA, IF, IHC, WB

Getestete Reaktivität:

Human

Zitierte Arten:

Hausschwein, Human

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

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

IP : HeLa-Zellen,

IHC : humanes Mammakarzinomgewebe, humanes Hodengewebe, humanes Kolongewebe

IF : HeLa-Zellen,

Hintergrundinformationen

SIRT1, also named as SIR2L1, 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.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Jie Liu	36238648	Oxid Med Cell Longev	WB
Xin Peng	34549339	J Mol Neurosci	WB
ChuanCai Liang	36064420	J Orthop Surg Res	WB

Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

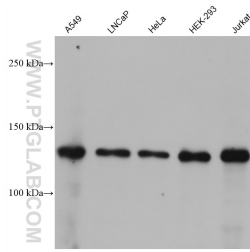
For technical support and original validation data for this product please contact:

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

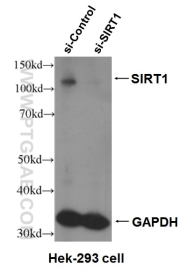
E: proteintech@ptglab.com
W: ptglab.com

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

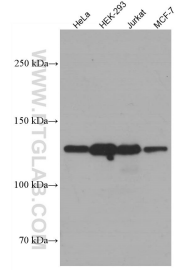
Ausgewählte Validierungsdaten



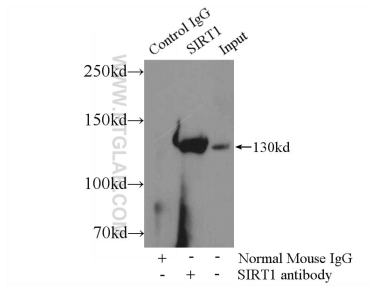
Various lysates were subjected to SDS PAGE followed by western blot with 60303-1-Ig (SIRT1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



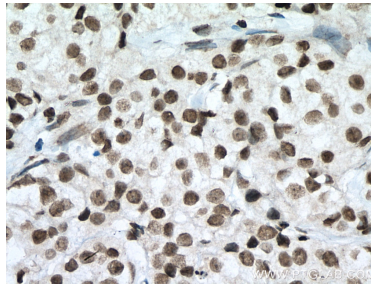
WB result of SIRT1 antibody (60303-1-Ig, 1:500) with si-Control and si-SIRT1 transfected HEK-293 cells.



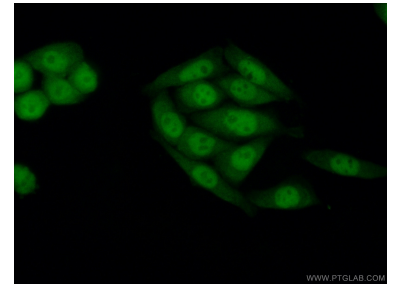
Various lysates were subjected to SDS PAGE followed by western blot with 60303-1-Ig (SIRT1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



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).