

SIRT2 Polyclonal Antibody

Product Details

Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Human, Horse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic Peptide: D(341) E A R T T E R E K P Q(352)
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	whole serum
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2188496

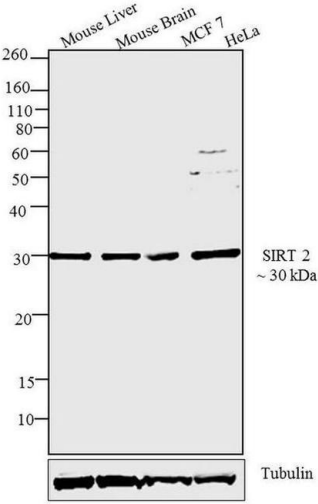
Applications	Tested Dilution	Publications
Western Blot (WB)	1:250	2 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:100	1 Publication
Immunocytochemistry (ICC/IF)	1:400	1 Publication
ChIP assay (ChIP)	-	1 Publication

Product Specific Information

PA3-200 detects human and rat SIRT2 and shows no cross-reactivity to other SIRT isoforms.

PA3-200 has been successfully used in Western blot and immunocytochemistry procedures. By Western blot, this antibody detects an ~48 kDa protein representing SIRT2 from SAOS2 cells. PA3-200 can be used for immunocytochemistry procedures.

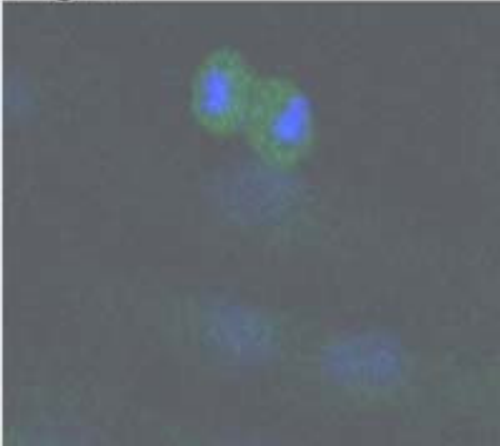
PA3-200 immunizing peptide corresponds to amino acid residues 341-352 from the human SIRT2 protein. This sequence is completely conserved between human and rat.



SIRT2 Antibody (PA3-200) in WB

Western blot analysis was performed on whole cell, tissue extracts (30 µg lysate) of Mouse Liver (Lane 1), Mouse Brain (Lane 2), MCF 7 (Lane 3), and HeLa (Lane 4). The blots were probed with Anti-SIRT2 Rabbit Polyclonal Antibody (Product # PA3-200, 1:250 dilution) and detected by chemiluminescence using Goat Anti-Rabbit IgG Secondary Antibody, HRP conjugate (Product # G-21234, 1:5000 dilution). A 30 kDa band corresponding to SIRT2 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

Fig. 2



SIRT2 Antibody (PA3-200) in ICC/IF

Immunofluorescence staining of SIRT2 in transfected SAOS2 cells using Product # PA3-200.

SIRT2 Antibody (PA3-200) in IHC (P)

Immunohistochemistry analysis of SIRT2 showing staining in the cytoplasm of paraffin-embedded human heart tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a SIRT2 Rabbit Polyclonal Antibody (Product # PA3-200) diluted in 3% BSA-PBS at a dilution of 1:100 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

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Western Blot (2)

<p>Journal of Asian natural products research</p> <p>Osthole regulates enzyme protein expression of CYP7A1 and DGAT2 via activation of PPARalpha/gamma in fat milk-induced fatty liver rats.</p> <p>"PA3-200 was used in western blot to study the effect of osthole on CYP7A1 and DGAT2 activity and its mechanism"</p> <p>Authors: Zhang Y,Xie ML,Xue J,Gu ZL</p>	<p>Year 2008</p> <p>Species Rat</p> <p>Dilution 1:1000</p>
<p>Hepatology (Baltimore, Md.)</p> <p>Alcohol-induced alterations in hepatic microtubule dynamics can be explained by impaired histone deacetylase 6 function.</p> <p>"Published figure using SIRT2 polyclonal antibody (Product # PA3-200) in Western Blot"</p> <p>Authors: Shepard BD,Joseph RA,Kannarkat GT,Rutledge TM,Tuma DJ,Tuma PL</p>	<p>Year 2008</p> <p>Species Human</p> <p>Dilution 1:4000</p>

Immunohistochemistry (1)

<p>The Journal of surgical research</p> <p>Adipose tissue-derived cells improve cardiac function following myocardial infarction.</p> <p>"PA3-200 was used in immunohistochemistry to study the therapeutic potential of adipose tissue-derived cells for the treatment of myocardial infarction"</p> <p>Authors: Schenke-Layland K,Strem BM,Jordan MC,Deemedio MT,Hedrick MH,Roos KP,Fraser JK,MacIellan WR</p>	<p>Year 2009</p> <p>Species Rat</p>
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Immunohistochemistry (Paraffin) (1)

<p>Frontiers in immunology</p> <p>Transcriptional and Histochemical Signatures of Bone Marrow Mononuclear Cell-Mediated Resolution of Synovitis.</p> <p>"PA3-200 was used in Immunohistochemistry (Paraffin) to study differential transcriptional signatures of bone marrow mononuclear cells in response to normal and inflamed synovial fluid."</p> <p>Authors: Menarim BC,El-Sheikh Ali H,Loux SC,Scoggin KE,Kalbfleisch TS,MacLeod JN,Dahlgren LA</p>	<p>Year 2022</p> <p>Species Horse</p>
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More applications with references on thermofisher.com

- ICC/IF (1)
- ChIP (1)

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