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anti-SIRT1 antibody (pSer47)

2 Images



Publications



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Overview

Quantity:	100 μL
Target:	SIRT1
Binding Specificity:	pSer47
Reactivity:	Human, Mouse, Rat, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIRT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human SirT1 around the phosphorylation site of Ser47
Isotype:	IgG
Cross-Reactivity:	Dog, Human, Mouse, Rat
Predicted Reactivity:	Pig,Rabbit
Purification:	Purified by Protein A.

Target Details

Target: SIRT1

Target Details

ranget Details	
Alternative Name:	SIRT1 (SIRT1 Products)
Background:	Synonyms: SIR2L1, NAD-dependent protein deacetylase sirtuin-1, hSIRT1, Regulatory protein
	SIR2 homolog 1, SIR2-like protein 1, hSIR2, SIRT1
	Background: This gene encodes a member of the sirtuin family of proteins, homologs to the
	yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and
	grouped into four classes. The functions of human sirtuins have not yet been determined,
	however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress
	recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular
	regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this
	gene is included in class I of the sirtuin family. Alternative splicing results in multiple transcript
	variants.
Gene ID:	23411
UniProt:	Q96EB6
Pathways:	MAPK Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of
	Intracellular Steroid Hormone Receptor Signaling, Carbohydrate Homeostasis, Positive
	Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process, Positive
	Regulation of Response to DNA Damage Stimulus, Negative Regulation of intrinsic apoptotic
	Signaling
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

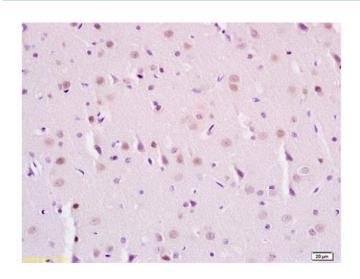
Product cited in:

Liu, Hou, Yuan, Hang, Zhao, Sun, Zhao, Zhao, Dong, Wang, Shi, Liu, Zhou, Dong, Liu, Zhan, Li, Li: "Fenofibrate inhibits atrial metabolic remodelling in atrial fibrillation through PPAR-α/sirtuin 1/PGC-1α pathway." in: **British journal of pharmacology**, Vol. 173, Issue 6, pp. 1095-109, (2016) (PubMed).

Suzuki, Bandoski, Bartlett: "Fluoride induces oxidative damage and SIRT1/autophagy through ROS-mediated JNK signaling." in: **Free radical biology & medicine**, Vol. 89, pp. 369-378, (2015) (PubMed).

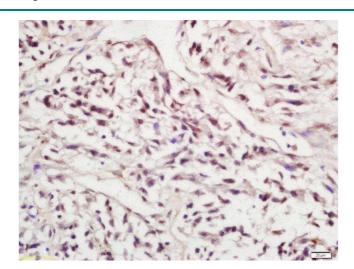
Suzuki, Bartlett: "Sirtuin1 and autophagy protect cells from fluoride-induced cell stress." in: **Biochimica et biophysica acta**, Vol. 1842, Issue 2, pp. 245-55, (2014) (PubMed).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-Phospho-SIRT1(Ser47) Polyclonal Antibody, Unconjugated (ABIN745658) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Rabbit Anti-SIRT1(Ser47) Polyclonal Antibody, Unconjugated 1:200 followed by conjugation to the secondary antibody and DAB staining