

Datasheet for ABIN625834
anti-SIRT1 antibody (AA 577-590)



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2 Images

Overview

Quantity:	100 µg
Target:	SIRT1
Binding Specificity:	AA 577-590
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This SIRT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Sirtuin 1 / SIRT1 (aa577-590)
Immunogen:	Peptide with sequence C-EKPQEVQTSRNVES, from the internal region of the protein sequence according to NP_036370.2, NP_001135970.1.
Sequence:	EKPQEVQTSR NVES
Isotype:	IgG
Specificity:	This antibody is expected to recognize both reported isoforms (NP_036370.2, NP_001135970.1).
Cross-Reactivity:	Human, Mouse
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Product Details

Grade: Verified

Target Details

Target:	SIRT1
Alternative Name:	SIRT1 (SIRT1 Products)
Background:	SIRT1, sirtuin 1, SIR2L1, NAD-dependent deacetylase sirtuin-1, OTTHUMP00000198111, OTTHUMP00000198112, SIR2-like protein 1, SIR2alpha, hSIR2, hSIRT1, sir2-like 1, sirtuin type 1
Gene ID:	23411, 93759
NCBI Accession:	NP_036370 , NP_001135970
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:	<p>Immunohistochemistry: In paraffin embedded Human Skin shows perinuclear staining in select keratinocytes. Recommended concentration, 3-5 µg/mL.</p> <p>Western Blot: Approx 120 kDa band observed in lysates of cell line Jurkat (calculated MW of 81.7 kDa according to NP_036370.2). The observed molecular weight corresponds to earlier findings in literature with different antibodies (Cheng et al, Proc Natl Ac</p> <p>Peptide ELISA: antibody detection limit dilution 1:64000.</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Handling Advice: Minimize freezing and thawing.

Storage: -20 °C

Storage Comment: Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

Images



Immunohistochemistry

Image 1. ABIN625834 (3.8µg/ml) staining of paraffin embedded Human Skin. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blotting

Image 2. ABIN625834 (0.05µg/ml) staining of Jurkat lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.