

Anti-SIRT1 Polyclonal Antibody

CATALOG NO.: **A2345-50 (50 µl)**
A2345-100 (100 µl)

BACKGROUND DESCRIPTION: Sirtuin 1 (SIRT1) is an NAD-dependent protein deacetylase that links transcriptional regulation directly to myriad cellular functions such as cell cycle control, metabolism, apoptosis, and autophagy. SIRT1 can modulate chromatin function through histone deacetylation which leads to transcriptional repression of target genes. SIRT1 can also directly deacetylate transcription factors, which positively and negatively regulates target gene expression depending on the affected transcription factor. Among the proteins affected by SIRT1 are ARNTL, PER2, and CRY1, demonstrating a key role for SIRT1 in the regulation of circadian rhythm.

ALTERNATE NAMES: Sirtuin 1; SIR2L1; SIR2-Like Protein 1; Sirtuin Type 1; HSIRT1; HSIR2; SIR2

ANTIBODY TYPE: Polyclonal

HOST/ISOTYPE: Rabbit / IgG

IMMUNOGEN: KLH-conjugated synthetic peptide of human SIRT1

PURIFICATION: Immunogen affinity chromatography

MOLECULAR WEIGHT: 120 kDa (observed)

FORM: Liquid

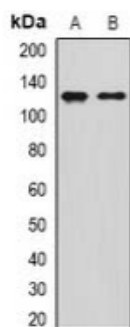
FORMULATION: In 0.42% potassium phosphate, 0.87% NaCl, pH 7.3, w/30% glycerol and 0.01% sodium azide

SPECIES REACTIVITY: Human, Rat

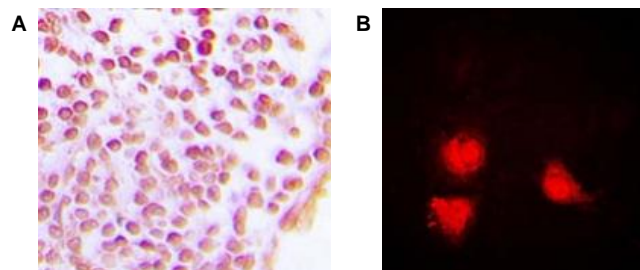
STORAGE CONDITIONS: Aliquot and store at -20 °C. Avoid repeated freeze-thaw cycles

APPLICATIONS: Western Blotting: 1:500 to 1:2000 dilution; IHC / IF: 1:50 to 1:200 dilution

This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of **A)** Jurkat and **B)** MCF-7 whole cell lysates using Anti-SIRT1 Polyclonal Antibody.



Anti-SIRT1 Polyclonal Antibody was used to perform **A)** immunohistochemistry analysis of human lung cancer tissue samples and **B)** immunofluorescence of Jurkat cells.

RELATED PRODUCTS:

SIRT3 Antibody (Cat. No. 3223)
 Sirtuin 1 (Human Intracellular) ELISA Kit (Cat. No. K4923)
 SIRT2 Antibody (Cat. No. 6632)
 Anti-ARNTL Polyclonal Antibody (Cat. No. A2330)
 Anti-Melatonin Receptor 1A Polyclonal Antibody (Cat. No. A2326)

FOR RESEARCH USE ONLY! Not to be used on humans