
SIRT1 (1F3) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 253046

Unit: 0.1 ml

Description:

SIRT1 (NAD-dependent deacetylase sirtuin-1) has been found to associate with the tumor suppressor protein p53. SIRT1 binds and deacetylates p53 with specificity for its C-terminal Lys382 residue in response to the upregulation of promyelocytic leukemia protein (PML) nuclear bodies or oncogenic Ras. The deacetylation of p53 SIRT1 has been shown to negatively regulate p53-mediated transcription, preventing cellular senescence and apoptosis induced by DNA damage and stress. SIRT1 has the closest homology to the yeast Sir2p and is widely expressed in fetal and adult tissues, with high expression in heart, brain, skeletal muscle and low expression in lung and placenta. SIRT1 regulates the p53-dependent DNA damage response pathway by binding to and deacetylating p53, specifically at Lysine 382.

Isotype: Mouse IgG1

Applications: WB, IHC, IF

Species Reactivity: H, Mk

Format: Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.

Alternate Names: NAD-dependent deacetylase sirtuin-1; hSIRT1; SIR2-like protein 1; hSIR2; SIR2L1; SIRT1

Accession No.: Q96EB6

Antigen: Purified recombinant fragment of human SIRT1 expressed in E. coli.

Application Notes: WB: 1:500-1:2000; IHC: 1:200-1:1000; IF: 1:200-1:1000

Storage: Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.