SirT1 (1F3) Mouse mAb

Applications: W, IP, IF-IC

Species Cross-Reactivity: H, M, R, Mk

Molecular Wt.: 120 kDa

Isotype: Mouse IgG1

Description:

SirT1, the mammalian ortholog of Sir2, is a nuclear protein implicated in the regulation of many cellular processes, including apoptosis, cellular senescence, endocrine signaling, glucose homeostasis, aging, and longevity. Targets of SirT1 include acetylated p53, p300, Ku70, forkhead (FoxO) transcription factors, and PGC-1α. SirT1 deacetylase activity is involved in silencing of mating type loci, telomere maintenance, DNA damage response, and cell aging (1).

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

**Anti-mouse secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:100
Immunofluorescence (I-F-IC) 1:100

For application specific protocols please see the web page for this product at www.cellsignal.com.

**Recommended companion products:**

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

**Species cross-reactivity is determined by western blot.**

Western blot analysis of extracts from various cell lines using SirT1 (1F3) Mouse mAb.

**Recommended Antibody Dilutions:**

Western blotting 1:1000
Immunoprecipitation 1:100
Immunofluorescence (I-F-IC) 1:100

For application specific protocols please see the web page for this product at www.cellsignal.com.

Background References:

Confocal immunofluorescent analysis of HeLa (left) and C2C12 (right) cells using SirT1 (1F3) Mouse mAb (green). Actin filaments were labeled with DyLight™ 554 Phalloidin #13054 (red).

Western blot analysis of extracts from SirT1 wild-type (WT) and knockout (KO) mouse embryo fibroblasts (MEF) using SirT1 (1F3) Mouse mAb (upper) and β-Actin (D6A8) Rabbit mAb #8457 (lower). Wild-type and knockout MEFs were a gift from Wenyi Wei at the Harvard Medical School.