

Recombinant SIRT6 Monoclonal Antibody

catalog number: **AN301835L**

Note: Centrifuge before opening to ensure complete recovery of vial contents.

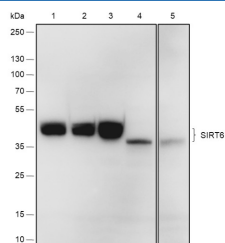
Description

Reactivity	Human;Rat;Mouse
Immunogen	Recombinant human SIRT6 fragment
Host	Rabbit
Isotype	IgG, κ
Clone	A547
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

WB	1:500-1:1000
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Data



Western Blot with SIRT6 Monoclonal Antibody at dilution of 1:1000. Lane 1: HCT-116, Lane 2: HeLa, Lane 3: Jurkat, Lane 4: C2C12, Lane 5: PC-12

Observed-MW:42 kDa

Calculated-MW:39 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

SirT6, a mammalian homolog of Sir2, is a nuclear, chromatin-associated protein that promotes the normal maintenance of genome integrity mediated by the base excision repair (BER) pathway. The BER pathway repairs single-stranded DNA lesions that arise spontaneously from endogenous alkylation, oxidation, and deamination events. SirT6 deficient mice show increased sensitivity to DNA-damaging agents, including the alkylating agents MMS and H₂O₂. In addition, these mice show genome instability with increased frequency of fragmented chromosomes, detached centromeres, and gaps. SirT6 may regulate the BER pathway by deacetylating DNA Pol β or other core components of the pathway.

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