

SIRT7 Polyclonal Antibody

ALTERNATE NAMES:	SIR2; Sirtuin 7; Silent Information Regulator 7
CATALOG #:	6107-50
AMOUNT:	50 µg
HOST:	Rabbit
ISOTYPE:	IgG
IMMUNOGEN:	Human SIRT7 aa 35-51 and 361-377
PURIFICATION:	Protein G purified
FORMULATION:	50 µg of antibody in 100 µl PBS containing 0.2% gelatin and 0.05% sodium azide
SPECIES REACTIVITY:	Human
STORAGE CONDITIONS:	Can be stored at 4°C for 6 months. For long term storage, store at -20°C. Avoid freeze/thaw cycles.

DESCRIPTION:

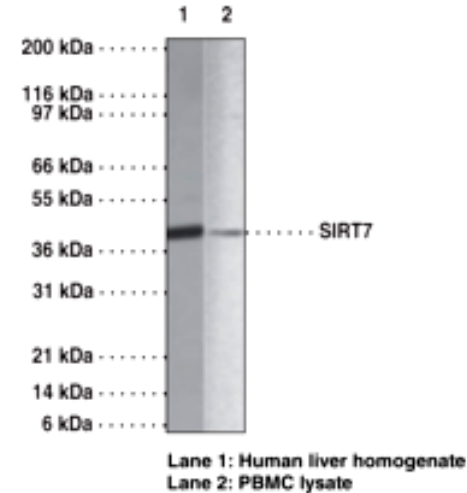
The sirtuins represent a distinct class of trichostatin A-insensitive lysyl-deacetylases (class III HDACs) and have been shown to catalyze a reaction that couples lysine deacetylation to the formation of nicotinamide and O-acetyl-ADP-ribose from NAD⁺ and the abstracted acetyl group. SIRT7 is a member of this family of proteins and is present in prokaryotes and eukaryotes. All SIR2-like proteins have a sirtuin core domain, which contains a series of sequence motifs conserved in organisms ranging from bacteria to humans. Bacterial, yeast, and mammalian sirtuins are able to metabolize NAD⁺ and several act as mono-ADP-ribosyltransferases. The enzymatic function of sirtuins is not yet completely understood but as mentioned above, recent reports of histone-activated SIR2-mediated NAD⁺ metabolism and NAD⁺-activated SIR2-mediated histone deacetylation suggest a possible coupled reciprocal activation mechanism involving interactions of SIR2 with NAD⁺ and the N-ε-acetyl-lysine groups of acetylated histone.

SPECIFICITY: SIRT7 antibody is human specific.

APPLICATION: Western blot: 1-3 µg/ml.

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

FOR RESEARCH USE ONLY! Not to be used on humans.



WB using SIRT7 pAb.

RELATED PRODUCTS:

- Sirtuin 2, human recombinant (**Cat. No. 7632-20, -100, -1000**)
- SIRT4 (GST-tagged), Human recombinant (**Cat. No. 7673-20, -100**)
- SIRT5 (GST-tagged), Human recombinant (**Cat. No. 7674-20, -100**)
- Sirtuin 1 (human intracellular) ELISA Kit (**Cat. No. K4923-100**)
- Sirtuin 2 (human intracellular) ELISA Kit (**Cat. No. K4924-100**)
- SIRT 1 Inhibitor, EX-527 (**Cat. No. 1652-10**)
- SIRT 1 Inhibitor Screening Assay Kit (**Cat. No. K322-100**)
- SIRT 2 Inhibitor, AGK2 (**Cat. No. 1651-10**)
- SIRT 2 Inhibitor, AK-7 (**Cat. No. 1857-5, -25**)
- SIRT3 Antibody (**Cat. No. 3223-100**)
- SIRT4 Antibody (**Cat. No. 3224-100**)
- SIRT5 Antibody (**Cat. No. 3225-100**)
- Sirtinol (**Cat. No. 2062-1, -5**)