

# SIRT7 Polyclonal Antibody

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

**DESCRIPTION:**

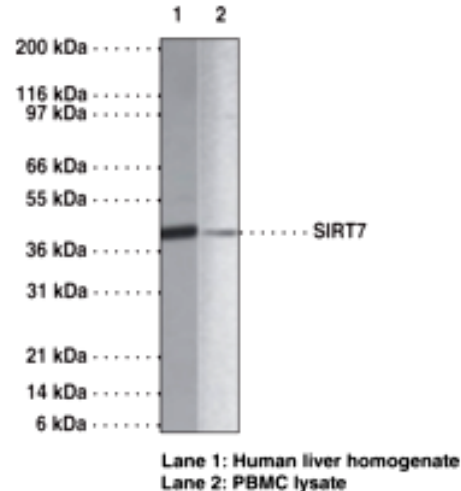
The sirtuins represent a distinct class of trichostatin A-insensitive lysyl-deacetylases (class III HDACs) and have been shown to catalyze a reaction that couples lysine deacetylation to the formation of nicotinamide and O-acetyl-ADP-ribose from NAD<sup>+</sup> and the abstracted acetyl group. SIRT7 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<sup>+</sup> 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<sup>+</sup> metabolism and NAD<sup>+</sup>-activated SIR2-mediated histone deacetylation suggest a possible coupled reciprocal activation mechanism involving interactions of SIR2 with NAD<sup>+</sup> 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**)