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**Box 1 | Basic Info**

Cat. No.	ABP-PAB-11099
Animal ID	RB1971/1972
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_012240
Amount	100 µg

**Alternative Name(s):** sirtuin (silent mating type information regulation 2 homolog) 4 (*S. cerevisiae*), sirtuin 4, SIR2L4, sirtuin type 4, sir2-related protein type 4, SIRT4

**References:**

1. Frye RA: Phylogenetic classification of prokaryotic and eukaryotic Sir2-like proteins. *Biochem. Biophys. Res. Commun.* 273(2): 793-798 (2000).
1. Frye RA: Characterization of five human cDNAs with homology to the yeast SIR2 gene: Sir2-like proteins (sirtuins) metabolize NAD and may have protein ADP-ribosyltransferase activity. *Biochem. Biophys. Res. Commun.* 260(1): 273-279 (1999).

## SIRT4, Sirtuin 4

### Polyclonal Antibody

Sirtuin 4 (SIRT4) is a member of the sirtuin (silent mating type information regulation) family of proteins, homologs to the yeast Sir2 protein. Sirtuins are being grouped into four classes based on a sirtuin core domain and SIRT4 is a member of class IV. The functions of mammalian sirtuins have not yet been determined, however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity.

**Buffers**

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

**Immunogen**

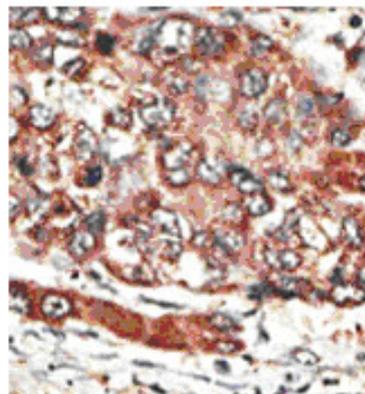
KLH conjugated synthetic peptide comprised of amino acids 240 - 254 [DKVDFVHKRVKEADS] of the human sirtuin 4 (SIRT4) protein.

**Application**

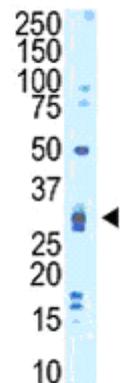
Tested by peptide-specific ELISA (1:1,000). WB (1:100 ~1:500), IHC (1:50 ~1:100)

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.



Human Hepatocarcinoma



WB analysis of Mouse lung tissue lysate