## 35-1871: Polyclonal Antibody to SIRT1 (Ab-344)

| Clonality : | Polyclonal |
| :--- | :--- |
| Application : | WB |
| Reactivity : | Rat,Mouse,Human |
| Gene: | SIRT1 |
| Gene ID : | 23411 |
| Uniprot ID: | Q96EB6 |
| Format: | Purified |
| Alternative Name : | SIR2L1 |
| Isotype : | Rabbit IgG |

Immunogen Information : Peptide sequence around aa.342~346 (N-Y-T-Q-N) derived from Human SIRT1.

## Description

NAD-dependent protein deacetylase that links transcriptional regulation directly to intracellular energetics and participates in the coordination of several separated cellular functions such as cell cycle, response to DNA damage, metobolism, apoptosis and autophagy. Can modulate chromatin function through deacetylation of histones and can promote alterations in the methylation of histones and DNA, leading to transcriptional repression. Deacetylates a broad range of transcription factors and coregulators, thereby regulating target gene expression positively and negatively. Serves as a sensor of the cytosolic ratio of NAD+/NADH which is altered by glucose deprivation and metabolic changes associated with caloric restriction. Is essential in skeletal muscle cell differentiation and in response to low nutrients mediates the inhibitory effect on skeletal myoblast differentiation which also involves 5 '-AMP-activated protein kinase (AMPK) and nicotinamide phosphoribosyltransferase (NAMPT).

## Product Info

| Amount : | $50 \mu \mathrm{l} / 100 \mu \mathrm{l}$ |
| :--- | :--- |
| Content : | Supplied at $1.0 \mathrm{mg} / \mathrm{mL}$ in phosphate buffered saline (without $\mathrm{Mg} 2+$ and $\mathrm{Ca} 2+$ ), $\mathrm{pH} 7.4,150 \mathrm{mM}$ <br>  <br> NaCl, $0.02 \%$ sodium azide and $50 \%$ glycerol. |
| Storage condition: | Store the antibody at $4^{\circ} \mathrm{C}$, stable for 6 months. For long-term storage, store at $-20^{\circ} \mathrm{C}$. Avoid <br> repeated freeze and thaw cycles. |

## Application Note

Western blotting :1:500~1:1000

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MD (% 293T Hela JK Hep62 
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