



## Sir2.1 (Silent Information Regulator 2)

### Catalog number

S1013-87K2

### Supplier

United States Biological

Sir2 (silent information regulator 2) protein plays a crucial role in regulating the life span of *C. elegans* by means of caloric restriction. Overexpression of the protein can extend the life span, and is, thus, a regulator of longevity.

### Applications

Suitable for use in Western Blot, Immunoprecipitation and Immunohistochemistry. Other applications not tested.

### Recommended Dilutions

Immunohistochemistry (Frozen/paraffin): 1:200-1:500

Western Blot: 1:3000

Immunoprecipitation: 1:10-1:500

Optimal dilutions to be determined by the researcher.

### Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

### Immunogen

Full-length recombinant protein corresponding to Sir2.1.

Cellular Localization: Exclusively nuclear

### Formulation

Supplied as a liquid, 0.05% sodium azide.

### Purity

Serum

### Specificity

Recognizes *C. elegans* Sir2.1 protein.

### Product Type

Pab

### Source

nematode

### Isotype

IgG

**Grade**

Serum

**Applications**

IHC IP WB

**Crossreactivity**

Ce

**Storage**

-20°C

**Reference**

1. Wang, Y, et al. *Mechan. of Age. and Dev.* 127: 48/56 (2006). 2. Rizki G, Iwata TN, Li J, et al. The Evolutionarily Conserved Longevity Determinants HCF-1 and SIR-2.1/SIRT1 Collaborate to Regulate DAF-16/FOXO. *PLoS Genet*;7(9). 2011 Sep. [PMID: 21909281]