

Datasheet for ABIN6700531 **SIRT3 Protein (GST tag)**



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Overview

Quantity:	20 µg
Target:	SIRT3
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIRT3 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	SIRT3 recombinant protein-GST fusion protein
Purification:	Full-length recombinant human SIRT3 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >75% by densitometry.
Purity:	>75%

Target Details

Target:	SIRT3
Alternative Name:	SIRT3 (SIRT3 Products)
Background:	Synonyms: SIR2L3, Sirtuin 3, NAD-dependent protein deacetylase sirtuin-3, mitochondrial, hSIRT3, Regulatory protein SIR2 homolog 3, SIR2-like protein 3, SIRT3, SIR2L3 Background: SIRT3 is a member of the sirtuin family of proteins which are homologs to the

Target Details

yeast Sir2 protein. Sirtuin family contain a sirtuin core domain and are grouped into four classes with SIRT3 being a member of class I. SIRT3 contains an N-terminal mitochondrial targeting signal and a central catalytic domain and localizes in the nuclei and mitochondria (1). SIRT3 has NAD(+)-dependent histone deacetylase activity with specificity for lys16 of H4 and, to a lesser extent, lys9 of H3. SIRT3 can repress transcription of a target gene in vivo when recruited to its promoter. Full-length SIRT3 is transported from the nucleus to the mitochondria during cell stress conditions (2). SIRT3 Protein is ideal for investigators involved in Signaling Proteins, Deacetylase/Demethylase Proteins, Cancer, Cell Cycle, and Inflammation research.

NCBI Accession: [NM_012239](#)

Application Details

Application Notes: Western_Blot_Dilution: User Optimized
Application_Note: SIRT3 Protein is suitable for use in Western Blot. Expect a band approximately ~66 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.2 µg/µL

Buffer: SIRT3 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

Storage: -80 °C

Storage Comment: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Expiry Date: 12 months