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Datasheet for ABIN6700527 **SIRT1 Protein (GST tag)**

Overview

Quantity:	20 µg
Target:	SIRT1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIRT1 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	SIRT1 recombinant protein-GST fusion protein
Purification:	Recombinant human SIRT1 (193-end) was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >80% by densitometry.
Purity:	>80%

Target Details

Target:	SIRT1
Alternative Name:	SIRT1 (SIRT1 Products)
Background:	Synonyms: SIR2L1, Sirtuin 1, NAD-dependent protein deacetylase sirtuin-1, Regulatory protein SIR2 homolog 1, SIR2-like protein 1, SirtT1 75 kDa fragment, 75SirT1 Background: SIRT1 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 SIRT1 being a member of class I. SIRT1 is a stress-response and chromatin-silencing factor (1). It is an NAD(+)-dependent histone deacetylase involved in various nuclear events such as transcription, DNA replication, and DNA repair. SIRT1 protein binds and deacetylates the p53 protein (2). Expression of wild type SIRT1 in human cells reduces the transcriptional activity of p53 indicating that SIRT1 is involved in the regulation of p53 function via deacetylation. SIRT1 Protein is ideal for investigators involved in Signaling Proteins, Deacetylase/Demethylase Proteins, Cancer, Cell Cycle, and Inflammation research.

NCBI Accession: [NM_012238](#)

Pathways: [MAPK Signaling](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [Carbohydrate Homeostasis](#), [Positive Regulation of Endopeptidase Activity](#), [Regulation of Carbohydrate Metabolic Process](#), [Positive Regulation of Response to DNA Damage Stimulus](#), [Negative Regulation of intrinsic apoptotic Signaling](#)

Application Details

Application Notes: Western_Blot_Dilution: User Optimized
Application_Note: SIRT1 Protein is suitable for use in Western Blot. Expect a band approximately ~105 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: SIRT1 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