

Datasheet for ABIN6700533 **SIRT4 Protein (GST tag)**



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Overview

Quantity:	20 µg
Target:	SIRT4
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIRT4 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	SIRT4 recombinant protein-GST fusion protein
Purification:	Full-length recombinant human SIRT4 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >70% by densitometry.
Purity:	>70%

Target Details

Target:	SIRT4
Alternative Name:	SIRT4 (SIRT4 Products)
Background:	Synonyms: IR2L4, MGC57437, MGC130046, MGC130047, sirtuin 4, NAD-dependent protein deacetylase sirtuin-4, NAD-dependent ADP-ribosyltransferase sirtuin-4, Regulatory protein SIR2 homolog 4, SIR2-like protein 4, SIRT4, SIR2L4

Target Details

Background: SIRT4 is a member of the sirtuin family of proteins which are homologs to the yeast Sir2 protein. Sirtuin family contain a sirtuin core domain and are grouped into four classes with SIRT4 being a member of class IV. SIRT4 lacks deacetylase activity but has ADP-ribosyltransferase activity (1). Immunoprecipitation analysis shows that SIRT4 interacts with the mitochondrial enzyme glutamate dehydrogenase (GDH), and functional analysis show that SIRT4 ADP-ribosylates and inhibits GDH (2). Downregulation of SIRT4 by RNA interference activates GDH, thereby upregulating insulin secretion in response to glucose and amino acids. SIRT4 Protein is ideal for investigators involved in Signaling Proteins, Deacetylase/Demethylase Proteins, Cancer, Cell Cycle, and Inflammation research.

NCBI Accession:	NM_012240
Pathways:	Negative Regulation of Hormone Secretion

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Application_Note: SIRT4 Protein is suitable for use in Western Blot. Expect a band approximately ~62 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:	SIRT4 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