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Datasheet for 009-001-U49S

UBLE1A (SAE1) protein-GST fusion

Overview

Description:	UBLE1A (SAE1) recombinant protein-GST fusion protein - 009-001-U49S
Item No.:	009-001-U49S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	UBLE1A (also known as SAE1) or SUMO1 activating enzyme subunit 1 is involved in regulating protein structure and intracellular localization. SAE1 and UBA2 form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins (1). The SAE1/SAE2 dimer functions in SUMO1 activation in a manner analogous to the single E1 ubiquitin-activating enzymes. The SAE2 inactivation may be a therapeutic strategy in MYC-driven cancers (2). UBLE1A Protein is ideal for investigators involved in Signaling Proteins, Ubiquitin Proteins, Cancer, Cell Cycle, and Neurobiology research.
Synonyms:	SAE1, SUA1, HSPC140, AOS1, FLJ3091, HSPC140, SUMO-activating enzyme subunit 1
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	SAE1
Purity/Specificity:	Recombinant full-length human UBLE1A (SAE1) was expressed by E. coli cells using an N-terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.
Relevant Links:	• NCBI - NM_005500

Application Details

Application Note:	UBLE1A Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. UBLE1A Protein is suitable for use in Western Blot. Expect a band approximately ~65kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.1 µg/µl
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

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