

Datasheet for 009-001-491

## SUMO3 protein-HIS Epitope

### Overview

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| <b>Description:</b>  | SUMO3 recombinant protein-HIS Epitope - 009-001-491 |
| <b>Item No.:</b>     | 009-001-491                                         |
| <b>Size:</b>         | 50 µg                                               |
| <b>Origin:</b>       | Human                                               |
| <b>Expressed in:</b> | E. coli                                             |

### Product Details

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>        | SUMO3 is a member of the SUMO (small ubiquitin-like modifier) protein family which functions in a manner similar to ubiquitin. SUMO3 is bound to target proteins as part of a post-translational modification system and modifies numerous cellular proteins and affect their metabolism and function. SUMO3 is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability (1). SUMO3 predominantly detected in the cytoplasm (2). SUMO3 Protein is ideal for investigators involved in Signaling Proteins, Ubiquitin Proteins, Apoptosis/Autophagy, Cell Cycle, and NfκB Pathway research. |
| <b>Synonyms:</b>          | SMT3A, SMT3H1, SUMO-3, Smt3B, Small ubiquitin-related modifier 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Expressed in:</b>      | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Type:</b>              | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

### Target Details

|                            |                                                                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | SUMO3                                                                                                                                                |
| <b>Purity/Specificity:</b> | Recombinant human SUMO3 (1-92) was expressed in E. coli cells using an N-Terminal his epitope. The purity was determined to be >95% by densitometry. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li><a href="#">NCBI - NM_006936</a></li></ul>                                                                     |

### Application Details

|                          |                                                                                                                                                                                                                                                                                                                            |
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| <b>Application Note:</b> | SUMO3 Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. SUMO3 Protein is suitable for use in Western Blot. Expect a band approximately ~17kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                            |
| <b>WB:</b>               | User Optimized                                                                                                                                                                                                                                                                                                             |

## Formulation

|                        |                           |
|------------------------|---------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered) |
| <b>Concentration:</b>  | 0.1 µg/µL                 |
| <b>Buffer:</b>         | See application note.     |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                 |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                   |

## Disclaimer

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