

**Datasheet for 009-001-S29S****KAT8 (MYST1) protein-GST fusion****Overview**

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| <b>Description:</b>  | KAT8 (MYST1) recombinant protein-GST fusion protein - 009-001-S29S |
| <b>Item No.:</b>     | 009-001-S29S                                                       |
| <b>Size:</b>         | 20 µg                                                              |
| <b>Origin:</b>       | Human                                                              |
| <b>Expressed in:</b> | Sf9 cells                                                          |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Background:</b>        | KAT8 (MYST1) or MYST histone acetyltransferase 1 is a signaling protein that belongs to the MYST family of histone acetyl transferases (HATs) and was originally isolated as an HIV-1 TAT-interactive protein which play important roles in regulating chromatin remodeling, transcription and other nuclear processes by acetylating histone and nonhistone proteins. MYST1 have a chromodomain that involved in protein-protein interactions and targeting transcriptional regulators to chromatin (1). MYST histone acetyltransferase 1 is also involved in ATM function (2). KAT8 Protein is ideal for investigators involved in Signaling Proteins, Acetyl/Methyltransferase Proteins, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, Cell Cycle, ERK/MAPK Pathway, Inflammation, Invasion/Metastasis, Metabolic Disorder, Neurobiology, NfκB Pathway, and PKA/PKC Pathway research. |
| <b>Synonyms:</b>          | KAT8, MYST1, hMOF, MOF, FLJ14040, Histone acetyltransferase KAT8, EC 2.3.1.48, Lysine acetyltransferase 8, MOZ, YBF2/SAS3, SAS2 and TIP60 protein 1, MYST-1, hMOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Expressed in:</b>      | Sf9 cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Type:</b>              | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Target Details**

|                            |                                                                                                                                                                                                                                    |
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| <b>Gene Name:</b>          | KAT8                                                                                                                                                                                                                               |
| <b>Purity/Specificity:</b> | Recombinant human KAT8 (2-467; contains the catalytic domain) was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >80% by densitometry. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">NCBI - BC037773</a></li></ul>                                                                                                                                                  |

## Application Details

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| <b>Application Note:</b> | KAT8 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. KAT8 Protein is suitable for use in Western Blot. Expect a band approximately ~83kDa 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>  | 0.05 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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