

**Datasheet for 009-001-R27S****14-3-3 zeta protein-GST fusion****Overview**

<b>Description:</b>	14-3-3 zeta recombinant protein-GST fusion protein - 009-001-R27S
<b>Item No.:</b>	009-001-R27S
<b>Size:</b>	20 µg
<b>Origin:</b>	Human
<b>Expressed in:</b>	E. coli

**Product Details**

<b>Background:</b>	14-3-3ζ (also known as tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide) is a member of the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. 14-3-3ζ protein plays a key role in cancer biology by being an important regulator of major cellular processes such as proliferation, differentiation, senescence and apoptosis (1). 14-3-3ζ protein has been shown to interact with the IRS1 protein, suggesting a role for this protein in regulating insulin sensitivity by interrupting the association between the insulin receptor and IRS1 (2). 14-3-3ζ Protein is ideal for investigators involved in Cell Stress & Chaperone Proteins, Cell Signaling, AKT/PKB Pathway, Cancer, Cell Cycle, Cellular Stress, ERK/MAPK Pathway, Neurobiology, PKA/PKC Pathway, WNT Signaling research.
<b>Synonyms:</b>	14-3-3 zeta, YWHAZ, KCIP-1, MGC111427, MGC126532, MGC138156, 14-3-3 protein zeta, 14-3-3-like protein, Protein Leonardo, 14-3-3, 14-3-3EZ, leo, THAP
<b>Species of Origin:</b>	Human
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein

**Target Details**

<b>Gene Name:</b>	YWHAZ
<b>Purity/Specificity:</b>	Recombinant full-length human tag-free 14-3-3ζ was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein . The purity was determined to be >90% by densitometry.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">NCBI - NM_003406</a></li></ul>

## Application Details

<b>Application Note:</b>	14-3-3ζ Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. 14-3-3ζ Protein is suitable for use in Western Blot. Expect a band approximately ~ 55kDa 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>	0.2 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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