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Datasheet for 009-001-R30S

# 14-3-3 theta protein

## Overview

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| **Description:** | 14-3-3 theta recombinant protein - 009-001-R30S |
| **Item No.:** | 009-001-R30S |
| **Size:** | 20 µg |
| **Origin:** | Human |
| **Expressed in:** | E. coli |

## Product Details

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| **Background:** | 14-3-3θ (also known as tyrosine 3-monooxygenase/ tryptophan 5-monooxygenase activation protein, theta polypeptide) is a member of the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. Through interaction with ASK1, c-jun NH-terminal kinase, and p38 mitogen-activated protein kinase (MAPK), 14-3-3θ plays an important role in controlling apoptosis (1). Induced expression of 14-3-3θ protein has been reported in patients with amyotrophic lateral sclerosis. Additionally, 14-3-3θ has been observed to mediate nucleocytoplasmic shuttling of the N protein (coronavirus nucleocapsid protein) which causes severe acute respiratory syndrome (2). 14-3-3θ Protein is ideal for investigators involved in Cell Stress& Chaperone Proteins, AKT/PKB Pathway, Cancer, Cell Cycle, Cellular Stress, ERK/MAPK Pathway, Neurobiology, PKA/PKC Pathway, and WNT Signaling research. |
| **Synonyms:** | 14-3-3 theta, YWHAQ, 1C5, HS1, 14-3-3, 14-3-3 protein tau |
| **Species of Origin:** | Human |
| **Expressed in:** | E. coli |
| **Type:** | Recombinant Protein |

## Target Details

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| **Gene Name:** | YWHAQ |
| **Purity/Specificity:** | Recombinant full-length human 14-3-3θ was expressed in E. coli cells. The purity was determined to be >90% by densitometry. |
| **Relevant Links:** | • NCBI - NM_006142 |

## Application Details

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| **Application Note:** | 14-3-3θ Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. 14-3-3θ Protein is suitable for use in Western Blot. Expect a band approximately ~ 29kDa 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

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 0.2 µg/µL |
| **Buffer:** | See application note. |

## Shipping & Handling

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| **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. |

## Disclaimer

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