Datasheet for ABIN6700780

# 14-3-3 theta Protein (YWHAQ)

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## Overview

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| Quantity: | 20 µg |
| Target: | 14-3-3 theta (YWHAQ) |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Application: | Western Blotting (WB) |

## Product Details

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| Purpose: | 14-3-3 theta recombinant protein |
| Purification: | Recombinant full-length human 14-3-3θ was expressed in E. coli cells. The purity was determined to be >90% by densitometry. |
| Purity: | >90% |

## Target Details

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| Target: | 14-3-3 theta (YWHAQ) |
| Alternative Name: | YWHAQ (YWHAQ Products) |
| Background: | Synonyms: 14-3-3 theta, YWHAQ, 1C5, HS1, 14-3-3, 14-3-3 protein tau<br>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 |

## Target Details

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| | 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). 14-3-3 θ 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. |
| NCBI Accession: | NM_006142 |
| Pathways: | Apoptosis, Myometrial Relaxation and Contraction |

## Application Details

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| Application Notes: | Western_Blot_Dilution: User Optimized<br>Application_Note: 14-3-3θ Protein is suitable for use in Western Blot. Expect a band approximately ~ 29 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | 0.2 μg/μL |
| Buffer: | 14-3-3θ Protein is stored in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol. |
| Storage: | -80 °C |
| Storage Comment: | 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. |
| Expiry Date: | 12 months |