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Datasheet for ABIN6700786

14-3-3 zeta Protein (YWHAZ) (GST tag)

Overview

Quantity:	20 µg
Target:	14-3-3 zeta (YWHAZ)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This 14-3-3 zeta protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	14-3-3 zeta recombinant protein-GST fusion protein
Purification:	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.
Purity:	>90%

Target Details

Target:	14-3-3 zeta (YWHAZ)
Alternative Name:	YWHAZ (YWHAZ Products)
Background:	Synonyms: 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 Background: 14-3-3ζ (also known as tyrosine 3-monooxygenase/tryptophan 5-monooxygenase

Target Details

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. 14-3-3 ζ 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). 14-3-3 ζ 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). 14-3-3 ζ 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.

NCBI Accession: [NM_003406](#)

Pathways: [Apoptosis](#), [Hormone Transport](#), [Myometrial Relaxation and Contraction](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Synaptic Membrane](#), [Production of Molecular Mediator of Immune Response](#), [Maintenance of Protein Location](#)

Application Details

Application Notes: Western_Blot_Dilution: User Optimized
Application_Note: 14-3-3 ζ Protein is suitable for use in Western Blot. Expect a band approximately ~ 55 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.2 μ g/ μ L

Buffer: 14-3-3 ζ 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