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Datasheet for 009-001-R28S

14-3-3 zeta protein

Overview

Description:	14-3-3 zeta recombinant protein - 009-001-R28S
Item No.:	009-001-R28S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	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.
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
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	YWHAZ
Purity/Specificity:	Recombinant full-length human 14-3-3ζ was expressed in E. coli cells. The purity was determined to be >95% by densitometry.
Relevant Links:	• NCBI - NM_003406

Application Details

Application Note:	14-3-3ζ 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. 14-3-3ζ 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

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

Shipping & Handling

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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

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