

Datasheet for 009-001-T14S**RAC3 protein-HIS Epitope****Overview**

Description:	RAC3 recombinant protein-HIS Epitope - 009-001-T14S
Item No.:	009-001-T14S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	RAC3 is a GTPase which belongs to the RHO family of small GTP-binding proteins that regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. RAC3 is primarily expressed in brain and is proposed to play a specific function in neuronal cells. Depletion of RAC3 induces stronger cell adhesion and dramatically increases the outgrowth of neurite-like protrusions whereas overexpression of RAC3 results in a contractile round morphology (1). RAC3 can exert its function through negatively affecting integrin-mediated cell-matrix adhesions (2). RAC3 shares with RAC1 the ability to interfere with cadherin-mediated adhesion. RAC3 Protein is ideal for investigators involved in Signaling Proteins, G-Proteins, Cancer, ERK/MAPK Pathway, Inflammation, Invasion/Metastasis, and Neurobiology research.
Synonyms:	Ras-related C3 botulinum toxin substrate 3, p21-Rac3
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	RAC3
Purity/Specificity:	Recombinant full-length human RAC3 Protein was expressed in E. coli cells using an N-Terminal his epitope. The purity was determined to be >95% by densitometry.
Relevant Links:	• NCBI - NM_005052

Application Details

Application Note:	RAC3 Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. RAC3 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~24kDa 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.

