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Datasheet for 009-001-T23S

# RhoD protein-HIS Epitope

## Overview

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| **Description:** | RhoD recombinant protein-HIS Epitope - 009-001-T23S |
| **Item No.:** | 009-001-T23S |
| **Size:** | 20 µg |
| **Reactivity:** | H. sapiens (Human) |
| **Origin:** | Human |
| **Expressed in:** | E. coli |

## Product Details

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| **Background:** | RhoD is a member of the Rho gene family that interacts with protein kinases and serves as a target of activated GTPase. Rho binds GTP and plays a critical role in muscle differentiation by regulating the expression of myogenin and MEF2 genes. Furthermore, Rho is involved in endosome dynamics and reorganization of the actin cytoskeleton and plays a role in coordinating membrane transport (1). mDia and ROCK are downstream effectors of Rho mediating Rho action on the actin cytoskeleton; mDia produces actin filaments by nucleation and polymerization and ROCK activate myosin to cross-link them for induction of actomyosin bundles and contractility (2). RhoD Protein is ideal for investigators involved in Signaling Proteins, G-Proteins, Angiogenesis, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, ERK/MAPK Pathway, Invasion/Metastasis, and Neurobiology research. |
| **Synonyms:** | Rho, RHOHP1, RHOM, Rho-related GTP-binding protein RhoD, ARHD |
| **Species of Origin:** | Human |
| **Expressed in:** | E. coli |
| **Type:** | Recombinant Protein |

## Target Details

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| **Gene Name:** | RHOD |
| **Reactivity:** | H. sapiens (Human) |
| **Purity/Specificity:** | Recombinant full length human RhoD was expressed in E. coli cells using an N-Terminal his epitope. The purity was determined to be >80% by densitometry. |

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| **Relevant Links:** | • NCBI - BC001338 |

## Application Details

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| **Application Note:** | RhoD Protein is stored in 50mM MOPS, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. RhoD Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~22kDa 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

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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