Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 009-001-T13S

# RAC2 protein-HIS Epitope

## Overview

| | |
|---|---|
| **Description:** | RAC2 recombinant protein-HIS Epitope - 009-001-T13S |
| **Item No.:** | 009-001-T13S |
| **Size:** | 20 µg |
| **Origin:** | Human |
| **Expressed in:** | E. coli |

## Product Details

| | |
|---|---|
| **Background:** | RAC2 is a GTPase which belongs to the RAS superfamily of small GTP-binding proteins and is involved in a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization and the activation of protein kinases. Knockdown of the gene for both RAC1 and RAC2 completely blocks B-cell development indicating that both GTPases are required to transduce B-cell receptor (BCR) signals leading to proliferation, survival, and the upregulation of BAFF receptor (1). Furthermore, RAC2 is required for the transfer of electrons from NADPH to cytochrome b-associated FAD, then to cytochrome b heme, and finally to oxygen (2). RAC2 Protein is ideal for investigators involved in Signaling Proteins, G-Proteins, Cancer, ERK/MAPK Pathway, Inflammation, Invasion/Metastasis, and Neurobiology research. |
| **Synonyms:** | Gx, EN-7, HSPC022, Ras-related C3 botulinum toxin substrate 2, GX, Small G protein, p21-Rac2, RAC2 |
| **Species of Origin:** | Human |
| **Expressed in:** | E. coli |
| **Type:** | Recombinant Protein |

## Target Details

| | |
|---|---|
| **Gene Name:** | RAC2 |
| **Purity/Specificity:** | Recombinant full-length human RAC2 was expressed in E. coli cells using an N-Terminal his epitope. The purity was determined to be >70% by densitometry. |
| **Relevant Links:** | • NCBI - NM_002872 |

## Application Details

| | |
|---|---|
| **Application Note:** | RAC2 Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. RAC2 Protein is suitable for use in Western Blot. 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

| | |
|---|---|
| **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.

www.rockland.com
tech@rockland.com
+1 484.791.3823