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## Datasheet for ABIN7317414 **RAC2 Protein (His tag)**

### Overview

Quantity:	100 µg
Target:	RAC2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAC2 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human RAC2 Protein (His Tag)
Sequence:	Met 1-Cys 189
Characteristics:	A DNA sequence encoding the human RAC2 (P15153) (Met 1-Cys 189) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 94 % as determined by reducing SDS-PAGE.

### Target Details

Target:	RAC2
Alternative Name:	RAC2 ( <a href="#">RAC2 Products</a> )
Background:	Background: Ras-related C3 botulinum toxin substrate 2 (Rac2) is a small G-protein belonging to the Ras subfamily of the GTPase family. Rac2 acts as an "on / off" switch for signal transduction cascades and motilities. When GDP is attached to the small G-protein, the enzyme is inactivated. Release of the GDP and replace of the GTP cativate the GTPase. Rac2 remains

## Target Details

active until the GTP is hydrolyzed to GDP. Rac2 is a hematopoietic-specific Rho family GTPase implicated as an important constituent of the NADPH oxidase complex and shares 92% amino acid identity with the ubiquitously expressed Rac1. The small G-protein Rac2 regulates the rearrangements of actin and membrane necessary for Fcy receptor-mediated phagocytosis by macrophages. Activated Rac2 binds to the p21-binding domain of PAK1 and this binding provided a basis for microscopic methods to localize activation of these G proteins inside cells. Synonym: EN-7;Gx;HSPC022;p21-Rac2

Molecular Weight: 22.6 kDa

UniProt: [P15153](#)

Pathways: [RTK Signaling](#), [VEGF Signaling](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, 20 % glycerol, pH 7.5

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.