



# Rabbit Anti-RAC3 monoclonal antibody, clone KN22-30 (CABT-L943)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                              |                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------|
| <b>Target</b>                | Rac1-2-3                                                                                   |
| <b>Immunogen</b>             | Recombinant protein                                                                        |
| <b>Isotype</b>               | IgG                                                                                        |
| <b>Source/Host</b>           | Rabbit                                                                                     |
| <b>Species Reactivity</b>    | Human, Mouse, Rat                                                                          |
| <b>Clone</b>                 | KN22-30                                                                                    |
| <b>Purification</b>          | Protein A purified.                                                                        |
| <b>Conjugate</b>             | Unconjugated                                                                               |
| <b>Applications</b>          | WB, ICC/IF, IHC                                                                            |
| <b>Cellular Localization</b> | Cell membrane. Melanosome.                                                                 |
| <b>Positive Control</b>      | 293T, MCF-7, NIH-3T3, Hela, human tonsil tissue, human spleen tissue.                      |
| <b>Format</b>                | Liquid                                                                                     |
| <b>Size</b>                  | 100 µl                                                                                     |
| <b>Buffer</b>                | 1×TBS (pH7.4), 1% BSA, 40% Glycerol.                                                       |
| <b>Preservative</b>          | 0.05% Sodium Azide                                                                         |
| <b>Storage</b>               | Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw |

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## BACKGROUND

### Introduction

Plasma membrane-associated small GTPase which cycles between active GTP-bound and inactive GDP-bound states. In its active state, binds to a variety of effector proteins to regulate cellular responses such as secretory processes, phagocytosis of apoptotic cells, epithelial cell polarization and growth-factor induced formation of membrane ruffles. Rac1 p21/rho GDI heterodimer is the active component of the cytosolic factor sigma 1, which is involved in stimulation of the NADPH oxidase activity in macrophages (By similarity). Essential for the SPATA13-mediated regulation of cell migration and adhesion assembly and disassembly. Isoform B has an accelerated GEF-independent GDP/GTP exchange and an impaired GTP hydrolysis, which is restored partially by GTPase-activating proteins. It is able to bind to the GTPase-binding domain of PAK but not full-length PAK in a GTP-dependent manner, suggesting that the insertion does not completely abolish effector interaction.

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### Keywords

Cell migration inducing gene 5 protein;EN 7 antibody OTTMUSP00000004488;p21 Rac3;p21-Rac3;Rac1B;RAC3;RAC3\_HUMAN;RAS related C3 botulinum substrate 3;Ras related C3 botulinum toxin substrate 3 (rho family small GTP binding protein Rac3);Ras related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3);Ras-related C3 botulinum toxin substrate 3;Rho family small GTP binding protein Rac3;RP23-84C12.18;EN-7;EN7;GX;HSPC 022;HSPC022;p21 Rac 2;p21 Rac2;p21-Rac2;p21Rac2;RAC 2;Rac2;RAC2\_HUMAN;Ras related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2);Ras related C3 botulinum toxin substrate 2;Ras related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac2);Ras related C3 botulinum toxin substrate 3;Ras-related C3 botulinum toxin substrate 2;Rho family small GTP binding protein Rac 2;Rho family small GTP binding protein Rac2;Small G protein;Cell migration-inducing gene 5 protein;MGC111543;MIG5;Migration inducing gene 5;Migration inducing protein 5;p21 Rac1;p21-Rac1;Rac 1;RAC1;RAC1\_HUMAN;Ras like protein TC25;Ras related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1);Ras-like protein TC25;Ras-related C3 botulinum toxin substrate 1;Rho family small GTP binding protein Rac1;TC 25;TC25 antibody

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