

Active Recombinant Human RAC1 Protein, GST-tagged

Cat. No. RAC1-1625H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human RAC1 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	1-192 a.a.
Description	RAC1 is a member of the Rho family and is a GTPase that is part of the small GTP-binding protein superfamily. RAC1 is involved in a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. Role of RAC1 in colorectal cancer has been reported after analysis of the protein expression level and activities of this protein in matched sets of tumor and non-tumor tissues.
Applications	Kinase Assay; Western Blot
Molecular Weight	47 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 95 %
Concentration	0.2 ug/ul
Sequences	Full-length
Storage	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.
Pathways	Adherens junction; Amyotrophic lateral sclerosis (ALS); Axon guidance; B cell receptor signaling pathway; Chemokine signaling pathway; Colorectal cancer; Epithelial cell signaling in Helicobacter pylori infection; Fc epsilon RI signaling pathway; Fc gamma R-mediated phagocytosis; Focal adhesion; Leukocyte transendothelial migration; MAPK signaling pathway; Natural killer cell mediated cytotoxicity; Neurotrophin signaling pathway; Pancreatic cancer
GENE INFORMATION	
Gene Name	RAC1 ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) [Homo sapiens]
Official Symbol	RAC1
Synonyms	RAC1; ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1); MIG5; Rac-1; TC-25; p21-Rac1; MGC111543; ras-related C3 botulinum toxin substrate 1; OTTHUMP00000151196; OTTHUMP00000151197; ras-like protein TC25; cell migration-inducing gene 5 protein; Ras-related C3 botulinum toxin substrate 1; Cell migration-inducing gene 5 protein; Ras-like protein TC25
Gene ID	5879

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mRNA Refseq	NM_006908
Protein Refseq	NP_008839
MIM	602048
UniProt ID	P63000
Chromosome Location	7p22
Function	GTP binding; GTP-dependent protein binding; GTPase activity; enzyme binding; nucleotide binding; protein binding; thioesterase binding
PDBrendering based on 1ds6.	