

RAC1 recombinant protein

RAC1, Active

CATALOG # AAA73114	HOST E Coli	APPLICATIONS Western Blot, ELISA
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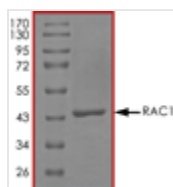
PRODUCT SYNONYMS

RAC1; Active; RAC1 recombinant protein

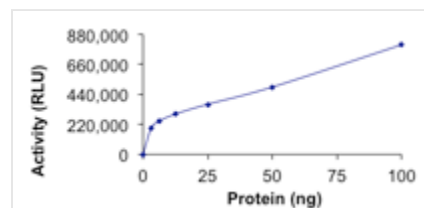
PRODUCT SPECIFICATIONS

Host	E Coli
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	Full length
Sequence Length	2341
Applicable Applications for RAC1 recombinant protein	WB (Western Blot), ELISA
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for RAC1 recombinant protein	Description: Recombinant full length human RAC1 was expressed in E Coli cells using an N-terminal GST tag. Scientific Background: 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 (1). 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. Overexpression of RAC1 leads to increased tumour growth in xenografts of human colorectal tumour cells (2). RAC1 is also involved in the regulation of critical cellular functions including organization of actin cytoskeleton, transcription control and cell cycle.
Product Categories/Family for RAC1 recombinant protein	Enzymes; Active GTPases/ATPases

References	1. Takami, Y. et al: The activity of RhoA is correlated with lymph node metastasis in human colorectal cancer. Dig Dis Sci. 2008;53 (2):467-73. 2. del Pulgar, T.G. et al: Differential expression of Rac1 identifies its target genes and its contribution to progression of colorectal cancer. Int. J. Biochem. Cell Biol. 2007;39 (12):2289-302.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	156071503
NCBI GeneID	5879
NCBI Accession #	NM_006908.4
NCBI GenBank Nucleotide #	NM_006908
UniProt Accession #	P63000; O95501; P15154; Q3Y4D3; Q5JAA8; Q9BTB4; AAB22206
Molecular Weight	47 kDa
NCBI Official Full Name	Homo sapiens ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) (RAC1), transcript variant Rac1, mRNA
NCBI Official Synonym Full Names	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
NCBI Official Symbol	RAC1
NCBI Official Synonym Symbols	MIG5; Rac-1; TC-25; p21-Rac1
NCBI Protein Information	ras-related C3 botulinum toxin substrate 1
UniProt Protein Name	Ras-related C3 botulinum toxin substrate 1
UniProt Gene Name	RAC1
UniProt Synonym Gene Names	TC25

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.