

Recombinant Full Length Human RAC1 protein, His-tagged

Cat. No. RAC1-6911H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RAC1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 23.6 kDa.
Species	Human
Source	E.coli
ProteinLength	1-192aa
Description	RAC1 belonging to the Rho small GTPase family, regulates the actin cytoskeleton but also other cellular processes. RAC1 have been shown to be involved in the regulation of cell-cell adhesion.
Form	Liquid. In 20mM Tris-HCl buffer (pH7.5) containing 1 mM DTT, 1 mM EDTA, 10% glycerol.
Molecular Mass	23.6 kDa (212aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MQAIKCVVVG DGAVGKTCLL ISYTTNAFPG EYIPTVFDNY SANVMVDGKP VNLGLWDTAG QEDYDLRLPL SYPQTDVFLI CFSLVSPASF ENVRAKWYPE VRHHCNPNTPI ILVGTKLDLR DDKDTIEK LK EKKLTPITYP QGLAMAKEIG AVKYLECSAL TQRGLKTVFD EAIRAVLCPP PVKKRKRKCL LL
Endotoxin	< 1.0 eu per 1 micogram of protein (determined by lal

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Purity	>95% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

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); ras-related C3 botulinum toxin substrate 1; p21 Rac1; Rac 1; TC 25; ras-like protein TC25; cell migration-inducing gene 5 protein; MIG5; Rac-1; TC-25; p21-Rac1; MGC111543;
Gene ID	5879
mRNA Refseq	NM_006908
Protein Refseq	NP_008839
MIM	602048
UniProt ID	P63000

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Chromosome Location	7p22
Pathway	Activation of Rac, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem;
Function	GTP binding; GTPase activity; enzyme binding; nucleotide binding; protein binding; thioesterase binding;

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