

Recombinant Human Ras-related C3 Botulinum Toxin Substrate 2 (Rho Family, Small GTP Binding Protein Rac2), GST-tagged

Cat. No. RAC2-343H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant GST tagged RAC2 was expressed in E.coli and purified by using conventional chromatography techniques (419 aa, 47 kDa).
Species	Human
Source	E.coli
ProteinLength	1-192 aa
Description	Rac2 is a small signaling G protein (more specifically a GTPase), and is a member of the Rac subfamily of the family Rho family of GTPases. Rac proteins play important roles in multiple cellular events, including actin cytoskeletal organization, cell proliferation and survival, cell cycle progression, and gene transcription regulation.
Formulation	Liquid. In Phosphate Buffered Saline(pH 7.4).
Molecular Weight	47 kDa (419 aa).
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Sequence

MSPILGYWKI KGLVQPTRL L EYLEEKYEE HLYERDEGDK WRNKKFELGL
 EFPNLPYYID GDVKLTSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL
 DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH
 PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA
 WPLQGWQATF GGGDHPPKSD LVPRGSHMQA IKCVVVG DGA VGKTCLLISY
 TTNAFPGEYI PTVFDNYSAN VMVDSKPVNL GLWDTAGQED YDRLRPLSYP
 QTDVFLICFS LVSPASYENV RAKWFPEVRH HCPSTPIILV GTKLDLRDDK
 DTIEKLKEKK LAPITYPQGL ALAKEIDSVK YLECSALTQR GLKTVFDEAI
 RAVLCPQPTR QQKRACSL

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.

GENE INFORMATION
Gene Name

RAC2

Synonyms

RAC2; ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2); Gx; EN-7; HSPC022; GX; p21-Rac2; Small G protein; ras-related C3 botulinum toxin substrate 2; rho family, small GTP binding protein Rac2; RAC2 ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2).

Gene ID

5880

mRNA Refseq

NM_002872.3

Protein Refseq

NP_002863.1

MIM

602049

UniProt ID

P15153

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Chromosome Location	22q13.1
Pathway	Adherens junction; Axon guidance; B cell receptor signaling pathway; Colorectal cancer; Fc epsilon RI signaling pathway; Focal adhesion; Leukocyte transendothelial migration; MAPK signaling pathway; Natural killer cell mediated cytotoxicity; Pancreatic cancer; Regulation of actin cytoskeleton; VEGF signaling pathway; Wnt signaling pathway; Signaling by Rho GTPases.
Function	GTP binding; GTPase activity; nucleotide binding; protein binding.
PDBrendering based on 1ds6. Available structures: 1ds6, 1e96, 1f	