

Recombinant Human RAC2

Cat. No. RAC2-486H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RAC2 was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 23.3 kDa (209aa).
Species	Human
Source	E.coli
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.
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MQAIKCVVVG DGAVGKTCLL ISYTTNAFPG EYIPTVFDNY SANVMVDSKP VNLGLWDTAG QEDYDRLRPL SYPQTDVFLI CFSLVSPASY ENVRAKWFPE VRHHCPSTPI ILVGTKLDLR DDKDTIEKLK EKKLAPITYP QGLALAKEID SVKYLECSAL TQRGLKTVFD EAIRAVLCPQ PTRQQKRAC.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 20% Glycerol, 2mM EDTA, 2mM DTT, 0.1 M NaCl.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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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 ras-related C3 botulinum toxin substrate 2 \(rho family, small GTP binding protein Rac2\) \[Homo sapiens \]](#)

Synonyms

RAC2; ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2); Gx; EN-7; HSPC022; ras-related C3 botulinum toxin substrate 2; small G protein; rho family, small GTP binding protein Rac2; p21-Rac2; Small G protein; GX; Ras-related C3 botulinum toxin substrate 3 (rho family, small GTP-binding protein Rac2)

Gene ID

[5880](#)

mRNA Refseq

[NM_002872](#)

Protein Refseq

[NP_002863](#)

MIM

[602049](#)

UniProt ID

[P15153](#)

Chromosome Location

22q13.1

Pathway

Adherens junction; Axon guidance; B cell receptor signaling pathway; Chemokine signaling pathway; Colorectal cancer; Fc epsilon RI signaling pathway; Fc gamma R-mediated phagocytosis; Focal adhesion; Leukocyte transendothelial migration; MAPK signaling pathway; Natural killer cell mediated cytotoxicity; Pancreatic cancer;

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Pathways in cancer; Regulation of actin cytoskeleton; VEGF signaling pathway; Wnt signaling pathway; Signaling by Rho GTPases

Function

GTP binding; GTPase activity; nucleotide binding; protein binding

PDB rendering based
on 1ds6.

