

Recombinant Human RAC3, His-tagged

Cat. No. NCOA3-7035H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human RAC3 Protein was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
ProteinLength	Full length
Description	<p>RAC3 is a GTPase which belongs to the RHO family of small GTP-binding proteins that regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. RAC3 is primarily expressed in brain and is proposed to play a specific function in neuronal cells.</p> <p>Depletion of RAC3 induces stronger cell adhesion and dramatically increases the outgrowth of neurite-like protrusions whereas overexpression of RAC3 results in a contractile round morphology. RAC3 can exert its function through negatively affecting integrin-mediated cell-matrix adhesions. RAC3 shares with RAC1 the ability to interfere with cadherin-mediated adhesion.</p>
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~24 kDa
Purity	>95%

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Applications	Kinase Assay, Western Blot
Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.2 $\mu\text{g}/\mu\text{l}$
GENE INFORMATION	
Gene Name	NCOA3 nuclear receptor coactivator 3 [Homo sapiens]
Official Symbol	NCOA3
Synonyms	NCOA3; nuclear receptor coactivator 3; ACTR; AIB1; bHLHe42; CAGH16; KAT13B; p/CIP; RAC3; receptor associated coactivator 3; SRC 3; SRC3; thyroid hormone receptor activator molecule 1; TNRC16; TRAM 1; CBP-interacting protein; receptor-associated coactivator 3; amplified in breast cancer 1 protein; steroid receptor coactivator protein 3; class E basic helix-loop-helix protein 42; pCIP; AIB-1; CTG26; SRC-3; TNRC14; TRAM-1; MGC141848;
Gene ID	8202
mRNA Refseq	NM_001174087
Protein Refseq	NP_001167558
MIM	601937
UniProt ID	Q9Y6Q9
Chromosome	20q12

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Location**Pathway**

Androgen Receptor Signaling Pathway, organism-specific biosystem;
BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem;
Circadian Clock, organism-specific biosystem; Circadian Repression of Expression by
REV-ERBA, organism-specific biosystem; Developmental Biology, organism-specific
biosystem; FOXA1 transcription factor network, organism-specific biosystem; Fatty
acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem;

Function

androgen receptor binding; chromatin binding; estrogen receptor binding; histone
acetyltransferase activity; ligand-dependent nuclear receptor binding; ligand-
dependent nuclear receptor transcription coactivator activity; nuclear hormone
receptor binding; protein N-terminus binding; protein binding; signal transducer
activity; thyroid hormone receptor binding; transcription coactivator activity;
transcription coactivator activity; transcription coactivator activity; transferase activity,
transferring acyl groups;

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