

Recombinant Human ARHGEF7, GST-tagged

Cat. No. ARHGEF7-9840H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ARHGEF7 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	455-803a.a.
Description	Rho GTPases play a fundamental role in numerous cellular processes triggered by extracellular stimuli that work through G protein coupled receptors. The encoded protein belongs to a family of cytoplasmic proteins that activate the Ras-like family of Rho proteins by exchanging bound GDP for GTP. It forms a complex with the small GTP binding protein Rac1 and recruits Rac1 to membrane ruffles and to focal adhesions. This protein can induce membrane ruffling. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	ARHGEF7 Rho guanine nucleotide exchange factor (GEF) 7 [Homo sapiens]
Official Symbol	ARHGEF7
Synonyms	ARHGEF7; Rho guanine nucleotide exchange factor (GEF) 7; rho guanine nucleotide exchange factor 7; BETA PIX; COOL1; DKFZp686C12170; DKFZp761K1021; guanine nucleotide exchange factor 7; KIAA0142; Nbla10314; P50; P50BP; P85; P85COOL1; P85SPR; PAK interacting exchange factor beta; PAK3; PIXB; rho; SH3 domain containing proline rich protein; PAK-interacting exchange factor beta; SH3 domain-containing proline-rich protein; COOL-1; BETA-PIX;
Gene ID	8874
mRNA Refseq	NM_001113511
Protein Refseq	NP_001106983
MIM	605477
UniProt ID	Q14155
Chromosome Location	13q33.3
Pathway	Aurora A signaling, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; Class I PI3K signaling events, organism-specific biosystem; Disease, organism-specific biosystem; EGFR downregulation, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem;
Function	Rho guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor

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activity; protein binding;

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