

Recombinant Human RTKN, His-tagged

Cat. No. RTKN-27495TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 110-405 (296 amino acids) of Human RTKN with an N terminal His tag. Predicted MWt: 33 kDa;
Species	Human
Source	E.coli
ProteinLength	110-405 a.a.
Description	This gene encodes a scaffold protein that interacts with GTP-bound Rho proteins. Binding of this protein inhibits the GTPase activity of Rho proteins. This protein may interfere with the conversion of active, GTP-bound Rho to the inactive GDP-bound form by RhoGAP. Rho proteins regulate many important cellular processes, including cytokinesis, transcription, smooth muscle contraction, cell growth and transformation. Dysregulation of the Rho signal transduction pathway has been implicated in many forms of cancer. Alternative splicing results in multiple transcript variants encoding different isoforms.
Conjugation	HIS
Tissue specificity	Highly expressed in prostate, moderately in kidney, heart, brain, spleen, testis, placenta, small intestine, pancreas, skeletal muscle and peripheral blood leukocytes, and weakly in ovary, colon and thymus. Weakly expressed in all normal cell lines tested

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Form	Lyophilised:Reconstitution with 159 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QDTEMILVDRTLTDISFQSNVLF AEAGPDFELRLELYGAC VEEEGALTGGPKRLATK LSSSLGRSSGRRVRASLDSAG GSGSSPILLPTPVVGGPRYHLLAHTTLTAAVQDG FRT HDLTLASHEENPAWLPLYG SVCCRLAAQPLCMTQPTAS GTLRVQQAGEMQN WAQVHGV LKGTNLFCYRQPEDADTGEE PLLTIAVNKETRVVRAGELDQALGRPFTLS ISNQYGDDE VTHTLQTESREALQSWMEALWQLFFDMSQWKQCCDEIM KIETPAPR KPPQALAKQGSLYHEMAI
Sequence Similarities	Contains 1 PH domain.Contains 1 REM (Hr1) repeat.

GENE INFORMATION

Gene Name	RTKN rhotekin [Homo sapiens]
Official Symbol	RTKN
Synonyms	RTKN; rhotekin; B5;
Gene ID	6242
mRNA Refseq	NM_001015055
Protein Refseq	NP_001015055

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MIM	602288
Uniprot ID	Q9BST9
Chromosome Location	2p13.1
Pathway	Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; G13 Signaling Pathway, organism-specific biosystem;
Function	GTP binding; GTP-Rho binding; GTPase inhibitor activity; nucleotide binding; protein binding;

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