

## Recombinant Human RTKN

Cat. No. RTKN-27494TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 1-89 of Human RTKN with proprietary tag, approximately 37kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-89 a.a.
<b>Description</b>	<p>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.</p>
<b>Tissue specificity</b>	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
<b>Form</b>	Liquid

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<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 50mM Tris HCl, 2mM DTE (1, 4-Dithioerythritol), 100mM Sodium chloride, pH 7.5
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Contains 1 PH domain. Contains 1 REM (Hr1) repeat.

## GENE INFORMATION

<b>Gene Name</b>	RTKN rhotekin [ Homo sapiens ]
<b>Official Symbol</b>	RTKN
<b>Synonyms</b>	RTKN; rhotekin; B5;
<b>Gene ID</b>	6242
<b>mRNA Refseq</b>	NM_001015055
<b>Protein Refseq</b>	NP_001015055
<b>MIM</b>	602288
<b>Uniprot ID</b>	Q9BST9
<b>Chromosome Location</b>	2p13.1

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<b>Pathway</b>	Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; G13 Signaling Pathway, organism-specific biosystem;
<b>Function</b>	GTP binding; GTP-Rho binding; GTPase inhibitor activity; nucleotide binding; protein binding;

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