

Active Recombinant Human TNIK, GST-tagged

Cat. No. TNIK-1499H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TNIK (1-367) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-367 aa
Description	TNIK or TRAF2 and NCK interacting kinase is characterized by an N-terminal kinase domain and a C-terminal GCK domain that serves a regulatory function. TNIK is mainly expression in brain, heart, and spleen and it is a specific effector of RAP2 which regulate actin cytoskeleton. TNIK is autophosphorylated in a manner dependent upon lys54 in the ATP-binding pocket of its kinase domain and plays a main role in cytoskeleton regulation.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	68 nmol/min/mg
Molecular Mass	~67 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	0.1µg/µl
GENE INFORMATION	
Gene Name	TNIK TRAF2 and NCK interacting kinase [Homo sapiens]
Official Symbol	TNIK
Synonyms	TNIK; TRAF2 and NCK interacting kinase; TRAF2 and NCK-interacting protein kinase; KIAA0551;
Gene ID	23043
mRNA Refseq	NM_001161560
Protein Refseq	NP_001155032
MIM	610005
UniProt ID	Q9UKE5
Chromosome Location	3q26.31
Pathway	Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem; TNF receptor signaling pathway, organism-specific

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biosystem;

Function

ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; small GTPase regulator activity;

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