TNIK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TNIK, Polyclonal Antibody
Full Product Name	TNIK (S764) (TRAF2 and NCK-interacting Kinase, KIAA0551) (MaxLight 490)
Product Gene Name	anti-TNIK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human TNIK.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	144,251 Da
OMIM	610005
3D Structure	ModBase 3D Structure for Q9UKE5
Immunogen	Synthetic non-phosphopeptide selected from the region encoding serine at position 764 of human TNIK (KLH).
Conjugate	MaxLight490
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-TNIK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-TNIK antibody	FLISA, Western Blot (WB)
Application Notes for anti-TNIK antibody	FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TNIK antibody	MBS6503241 is an antibody targeting TNIK. Also known as TNIK (S764) (TRAF2 and NCK-interacting Kinase, KIAA0551) (MaxLight 490). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-TNIK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TNIK. It may not necessarily be applicable to this product.

NCBI GI #	55741807

NCBI GeneID	23043
NCBI Accession #	NP_055843
UniProt Primary Accession #	Q9UKE5
UniProt Secondary Accession #	O60298; Q8WUY7; Q9UKD8; Q9UKD9; Q9UKE0; Q9UKE1; Q9UKE2; Q9UKE3; A7E2A3; A8K4U1; D3DNQ6
UniProt Related Accession #	Q9UKE5
GenBank Nucleotide #	NM_015028.3
NCBI Official Full Name	TRAF2 and NCK-interacting protein kinase isoform 1
NCBI Official Synonym Full Names	TRAF2 and NCK interacting kinase
NCBI Official Symbol	TNIK
NCBI Official Synonym Symbols	MRT54
UniProt Protein Name	TRAF2 and NCK-interacting protein kinase
Protein Family	TRAF2 and NCK-interacting protein kinase
UniProt Gene Name	TNIK
UniProt Synonym Gene Names	KIAA0551
UniProt Entry Name	TNIK_HUMAN
NCBI Protein Information	TRAF2 and NCK-interacting protein kinase
NCBI Summary for TNIK	Wnt signaling plays important roles in carcinogenesis and embryonic development. The protein encoded by this gene is a serine/threonine kinase that functions as an activator of the Wnt signaling pathway. Mutations in this gene are associated with an autosomal recessive form of cognitive disability. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2017]
UniProt Comments for TNIK	TNIK: Serine/threonine kinase that acts as an essential activator of the Wnt signaling pathway. Recruited to promoters of Wnt target genes and required to activate their expression. May act by phosphorylating TCF4/TCF7L2. Appears to act upstream of the JUN N-terminal pathway. May play a role in the response to environmental stress. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. More generally, it may play a role in cytoskeletal rearrangements and regulate cell spreading. Phosphorylates SMAD1 on Thr-322. Interacts (via the CNH domain) with RAP2A (GTP-bound form preferentially); the interaction is direct and required for the activation of TNIK by RAP2A. Interacts with NEDD4; recruits RAP2A to NEDD4. Interacts with TRAF2 and NCK. Interacts with TCF7L2/TCF4 and CTNNB1; the interaction is direct. Interacts with TANC1. Expressed ubiquitously. Highest levels observed in heart, brain and skeletal muscle. Expressed in normal colonic epithelia and colorectal cancer tissues. Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Kinase, protein; Protein kinase, STE; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.1; STE group; STE20 family; MSN subfamily Chromosomal Location of Human Ortholog: 3q26.31 Cellular Component: nucleoplasm; recycling endosome; cytoskeleton; apical plasma membrane; cytoplasm; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; ATP binding; receptor signaling protein serine/threonine kinase activity; protein kinase activity Biological Process: microvillus biogenesis; Wnt receptor signaling pathway; protein amino acid autophosphorylation; regulation of dendrite morphogenesis; actin cytoskeleton reorganization; cytoskeleton organization and biogenesis; positive regulation of protein amino acid phosphorylation; protein amino acid phosphorylation; activation of JNKK activity
Research Articles on TNIK	**1.** Results indicate that Traf2- and Nck-interacting kinase (TNIK) is involved in the interleukin-6-dependent proliferation of multiple myeloma cells.

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