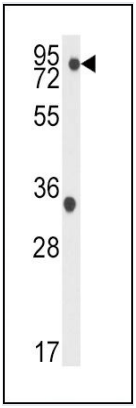
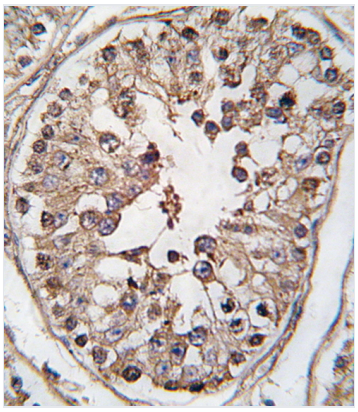
NAK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NAK, Polyclonal Antibody
Full Product Name	NAK (S172) (TBK, Serine/Threonine-protein Kinase TBK1, TANK-binding Kinase 1, T2K, NF-kappa-B-activating Kinase, TBK1) (MaxLight 405)
Product Gene Name	anti-NAK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human NAK. Species Crossreactivity: mouse
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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	84 kDa
OMIM	604834
3D Structure	ModBase 3D Structure for Q9UHD2
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 150-181 of human NAK. Species sequence homology: Xenopus, zebrafish
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-NAK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-NAK antibody	Immunohistochemistry (IHC) Paraffin, FLISA, Western Blot (WB)
Application Notes for anti-NAK antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NAK antibody	MBS6489278 is an antibody targeting NAK. Also known as NAK (S172) (TBK, Serine/Threonine-protein Kinase TBK1, TANK-binding Kinase 1, T2K, NF-kappa-B-activating Kinase, TBK1) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-NAK antibody	1. Deng, W., J. Biol. Chem. 283(51), 35590-35597 (2008). 2. Chessler, A.D., J. Immunol. 181(11), 7917-7924 (2008). 3. Soulat, D., EMBO J. 27(15), 2135-2146 (2008).
Other Notes	Small volumes of anti-NAK 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.



Western Blot (WB) of anti-NAK antibody
Western Blot analysis in K562 cell line lysates (35ug/lane) using N0017-97C. TBK1(arrow) was detected using N0017-97C.



Immunohistochemistry (IHC) of anti-NAK antibody
Immunohistochemistry analysis in formalin-fixed and paraffin-embedded human testis tissue reacted with N0017-97C, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of N0017-97C for immunohistochemistry.

ADDITIONAL DETAILS

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

NCBI GI #	7019547
NCBI GeneID	29110
NCBI Accession #	NP_037386
UniProt Primary Accession #	Q9UHD2
UniProt Secondary Accession #	Q8IYV3; Q9NUJ5; A8K4S4
UniProt Related Accession #	Q9UHD2
GenBank Nucleotide #	NM_013254.3
NCBI Official Full Name	serine/threonine-protein kinase TBK1
NCBI Official Synonym Full Names	TANK-binding kinase 1
NCBI Official Symbol	TBK1
NCBI Official Synonym Symbols	NAK; T2K
UniProt Protein Name	Serine/threonine-protein kinase TBK1
UniProt Synonym Protein Names	NF-kappa-B-activating kinase; T2K; TANK-binding kinase 1
Protein Family	Probable serine/threonine-protein kinase
UniProt Gene Name	TBK1
UniProt Synonym Gene Names	NAK
UniProt Entry Name	TBK1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase TBK1; NF-kB-activating kinase; NF-kappa-B-activating kinase
NCBI Summary for NAK	The NF-kappa-B (NFKB) complex of proteins is inhibited by I-kappa-B (IKB) proteins, which inactivate NFKB by trapping it in the cytoplasm. Phosphorylation of serine residues on the IKB proteins by IKB kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation and nuclear translocation of the NFKB complex. The protein encoded by this gene is similar to IKB kinases and can mediate NFKB activation in response to certain growth factors. [provided by RefSeq, Oct 2010]
Research Articles on NAK	**1.** The cGAS/STING/TBK1/IRF3 cascade was not a direct target of viral antihost strategies, and authors found no evidence that adenovirus stimulation of the cGAS/STING DNA response had an impact on viral replication efficiency.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/nak/6489278