Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-301-I22

TBK1 Antibody

Overview

Description:	Anti-TBK1 (MOUSE) Monoclonal Antibody - 200-301-I22
Item No.:	200-301-I22
Size:	100 µg
Applications:	IF, IHC, IP, WB
Reactivity:	Human, Mouse
Host Species:	Mouse

Product Details

Background:	Anti-TBK1 NAK Antibody detects human TBK1 NAK. NF-kB (nuclear factor kB) is sequestered in the cytoplasm by IkB family of inhibitory proteins that mask the nuclear localization signal of NF-kB thereby preventing it's translocation to the nucleus. External stimuli such as tumor necrosis factor or other cytokines results in phosphorylation and degradation of IkB releasing NF-kB dimers. NF-kB dimer subsequently translocates to the nucleus and activates target genes. Synthesis of IkBa is autoregulated. IkB proteins are phosphorylated by IkB kinase complex consisting of at least three proteins, IKK1/a, IKK2/b, and IKK3/g. IKK1/a and IKK2/b are phosphorylated by NF-kB-inducing kinase (NIK) and MAP kinase kinase kinase-1 (MEKK1), respectively. Recently, a new IKK family member, TBK1 [(TANK-binding kinase), also known as NAK and T2K] has been identified. TANK (TRAF-associated NF-kB activator) interacts with TBK1 and activates NF-kB in a kinase dependent manner. Anti-TBK1 NAK Antibody is ideal for investigators involved in NFkappaB and apoptosis research.
Synonyms:	NAK, Nuclear receptor subfamily 4 group A member 1, Early response protein NAK1, Nuclear hormone receptor NUR/77, Nur77, Orphan nuclear receptor HMR, Orphan nuclear receptor TR3, ST-59, Testicular receptor 3, Serine/threonine-protein kinase TBK1, NF-kappa-B-activating kinase, T2K, TANK-binding kinase 1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	108A429
Format:	IgG1

Target Details

Gene Name:	TBK1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	TBK1 Antibody was produced in mice prepared by repeated immunizations with a synthetic peptide corresponding to internal amino acids of the human protein TBK1.
Purity/Specificity:	Anti-TBK1 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-TBK1 from Human, Mouse, cow, dog and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-TBK1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9UHD2 • NCBI - NP_037386.1 • GeneID - 29110

Application Details

Tested Applications:	IF, IHC, IP, WB
Application Note:	Anti-TBK1 Antibody is tested for use in WB, ICC/IF, IHC, IHC-P, and IP. Expect a band approximately 80kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1-2 µg/mL

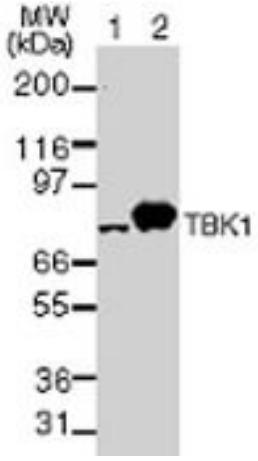
Formulation

Physical State:	Liquid
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

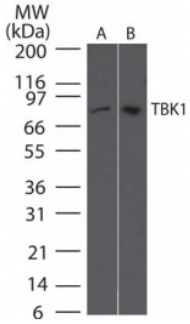
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Mouse Anti-TBK1 NAK antibody. Lane 1: Lysate from untransfected 293 cells. Lane 2: Lysate transfected with human TBK1 cDNA with antibody. Primary antibody: TBK1 NAK antibody at 2 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for TBK1 NAK. Other band(s): none.



Western Blot
Western Blot of Mouse Anti-TBK1 NAK antibody. Lane A: Human Daudi. Lane B: Mouse RAW. Primary antibody: TBK1 antibody at 2 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for TBK1 NAK. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.