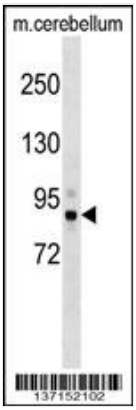
# TBK1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | Tbk1, Polyclonal Antibody |
| **Full Product Name** | Mouse Tbk1 Antibody (N-term) |
| **Product Gene Name** | anti-Tbk1 antibody |
| **Product Synonym Names** | Serine/threonine-protein kinase TBK1; T2K; TANK-binding kinase 1; Tbk1 |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit Ig |
| **Host** | Rabbit |
| **Species Reactivity** | Mouse |
| **Form/Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Purity/Purification** | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab) |
| **Concentration** | Vial Concentration: 0.5 (lot specific) |
| **Specificity** | This Mouse Tbk1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 8-35 amino acids from the N-terminal region of mouse Tbk1. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | Tbk1 peptide (MBS9222474) is used for blocking the activity of Tbk1 antibody (MBS9203960) |
| **Molecular Weight** | 83425 |
| **Immunogen Sequence Positions** | 8-35 |
| **3D Structure** | ModBase 3D Structure for Q9WUN2 |
| **Antigen Type** | Synthetic Peptide |
| **Antigen Source** | MOUSE |
| **Product Categories/Family for anti-Tbk1 antibody** | Signal Transduction |
| **Applications Tested/Suitable for anti-Tbk1 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-Tbk1 antibody** | WB~~1:1000 |
| **Related Product Information for anti-Tbk1 antibody** | Serine/threonine protein involved in the signaling cascade converging to the activation of the transcription factor NF-kappa-B. May function as an IKK kinase, playing an essential role in the transcription of a subset of a TNF-alpha-induced genes. Also mediates production of RANTES/CCL5 and interferon-beta/IFNB1. Has a pivotal role in the innate immune response. Phosphorylates and activates IRF3 and IRF7 and allows their nuclear localization. This leads to production of alpha/beta interferons and the development of a cellular antiviral state. It also seems to be a central factor in the induction of the antiviral interferon response. |

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| **Product References and Citations for anti-Tbk1 antibody** | Parvatiyar, K., et al. J. Biol. Chem. 285(20):14999-15009(2010)<br>Watanabe, T., et al. J. Clin. Invest. 120(5):1645-1662(2010)<br>Gabhann, J.N., et al. J. Immunol. 184(5):2314-2320(2010)<br>Munoz, M.C., et al. J. Endocrinol. 201(2):185-197(2009)<br>Miyahira, A.K., et al. J. Immunol. 182(4):2248-2257(2009) |
| **Other Notes** | Small volumes of anti-Tbk1 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. |
| **Searchable Terms for Tbk1 purchase** | MBS9203960 is an antibody targeting Tbk1. Also known as Mouse Tbk1 Antibody (N-term). Reactive in Mouse. Host: Rabbit. |




**Western Blot (WB) of anti-Tbk1 antibody**
Mouse Tbk1 Antibody (N-term) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the Tbk1 antibody detected the Tbk1 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tbk1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 251823839 |
| **NCBI GeneID** | 56480 |
| **NCBI Accession #** | NP_062760.3 |
| **UniProt Primary Accession #** | Q9WUN2 |
| **UniProt Secondary Accession #** | Q9CT90; Q9DC03 |
| **UniProt Related Accession #** | Q9WUN2 |
| **GenBank Nucleotide #** | NM_019786.4 |
| **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** | AI462036; AW048562; 1200008B05Rik |
| **UniProt Protein Name** | Serine/threonine-protein kinase TBK1 |
| **UniProt Synonym Protein Names** | T2K; TANK-binding kinase 1 |
| **Protein Family** | Serine/threonine-protein kinase |
| **UniProt Gene Name** | Tbk1 |
| **UniProt Entry Name** | TBK1_MOUSE |
| **NCBI Protein Information** | serine/threonine-protein kinase TBK1 |

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| **UniProt Comments for Tbk1** | TBK1: a protein kinase of the IKK family. Can mediate NFkB activation in response to certain growth factors. Forms a complex with the IKB protein TANK and TRAF2 and release the NFKB inhibition caused by TANK.<br><br>Protein type: Protein kinase, Ser/Thr (non-receptor); Kinase, protein; Protein kinase, Other; EC 2.7.11.1; Other group; IKK family<br><br>Cellular Component: cytoplasm<br><br>Molecular Function: transferase activity; protein serine/threonine kinase activity; protein binding; nucleic acid binding; transferase activity, transferring phosphorus-containing groups; nucleotide binding; phosphoprotein binding; kinase activity; ATP binding; protein kinase activity<br><br>Biological Process: defense response to Gram-positive bacterium; immune system process; positive regulation of interferon-beta biosynthetic process; positive regulation of interferon-beta production; innate immune response; positive regulation of transcription from RNA polymerase II promoter; protein amino acid phosphorylation; defense response to virus; phosphorylation; activation of innate immune response; positive regulation of interferon-alpha production |
| **Research Articles on Tbk1** | **1.** A role for APPL1 in TLR3/4-dependent TBK1 and IKKepsilon activation in macrophages. |
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