10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Trib3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14299b

Specification

Mouse Trib3 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q8K4K2
Other Accession	NP_780302.2
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**39023**
Antigen Region	**306-334**

Mouse Trib3 Antibody (C-term) - Additional Information

Gene ID 228775

Other Names
Tribbles homolog 3, TRB-3, Neuronal cell death-inducible putative kinase, Trib3, Nipk, Trb3

Target/Specificity
This Mouse Trib3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 306-334 amino acids from the C-terminal region of mouse Trib3.

Dilution
WB~~1:1000

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.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Mouse Trib3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Trib3 Antibody (C-term) - Protein Information

Name Trib3

Synonyms Nipk, Trb3

Function Inactive protein kinase which acts as a regulator of the integrated stress response (ISR), a process for adaptation to various stress (PubMed:17369260). Inhibits the transcriptional activity of DDIT3/CHOP and is involved in DDIT3/CHOP-dependent cell death during ER stress (By similarity). May play a role in programmed neuronal cell death but does not appear to affect non-neuronal cells (By similarity). Acts as a negative feedback regulator of the ATF4-dependent transcription during the ISR: while TRIB3 expression is promoted by ATF4, TRIB3 protein interacts with ATF4 and inhibits ATF4 transcription activity (PubMed:12749859, PubMed:17369260). Disrupts insulin signaling by binding directly to Akt kinases and blocking their activation (PubMed:12791994). May bind directly to and mask the 'Thr-308' phosphorylation site in AKT1 (PubMed:12791994). Interacts with the NF- kappa-B transactivator p65 RELA and inhibits its phosphorylation and thus its transcriptional activation activity (By similarity). Interacts with MAPK kinases and regulates activation of MAP kinases (By similarity). Can inhibit APOBEC3A editing of nuclear DNA (PubMed:22977230).

Cellular Location
Nucleus

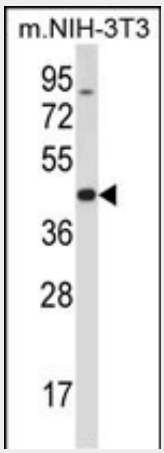
Tissue Location
Highly expressed in liver. Not detected in heart, brain, spleen, lung, skeletal muscle, kidney or testis

Mouse Trib3 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Trib3 Antibody (C-term) - Images



Mouse Trib3 Antibody (C-term) (Cat. #AP14299b) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the Trib3 antibody detected the Trib3 protein (arrow).

Mouse Trib3 Antibody (C-term) - Background

Trib3 disrupts insulin signaling by binding directly to Akt kinases and blocking their activation. May bind directly to and mask the 'Thr-308' phosphorylation site in AKT1. Binds to ATF4 and inhibits its transcriptional activation activity. Interacts with the NF-kappa-B transactivator p65 RELA and inhibits its phosphorylation and thus its transcriptional activation activity. Interacts with MAPK kinases and regulates activation of MAP kinases. May play a role in programmed neuronal cell death but does not appear to affect non-neuronal cells. Does not display kinase activity.

Mouse Trib3 Antibody (C-term) - References

Morse, E., et al. Am. J. Physiol. Renal Physiol. 299 (5), F965-F972 (2010) :
Dedhia, P.H., et al. Blood 116(8):1321-1328(2010)
Liew, C.W., et al. J. Clin. Invest. 120(8):2876-2888(2010)
Humphrey, R.K., et al. J. Biol. Chem. 285(29):22426-22436(2010)
Liu, J., et al. Am. J. Physiol. Endocrinol. Metab. 298 (3), E565-E576 (2010) :