

## Mouse Tp53rk Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP14294c

# **Specification**

## Mouse Tp53rk Antibody (Center) - Product Information

WB,E Application **Primary Accession** 099PW4 Other Accession NP 076304.2 Human, Mouse Reactivity Host **Rabbit** Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 27394 Antigen Region 100-128

### Mouse Tp53rk Antibody (Center) - Additional Information

### **Other Names**

TP53-regulating kinase, Atypical serine/threonine protein kinase Tp53rk, EKC/KEOPS complex subunit Tp53rk, 36--, Nori-2, p53-related protein kinase, Tp53rk, Prpk, Trp53rk

## Target/Specificity

This Mouse Tp53rk antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 100-128 amino acids from the Central region of mouse Tp53rk.

### **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

### **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.

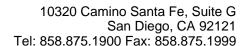
### **Precautions**

Mouse Tp53rk Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

# Mouse Tp53rk Antibody (Center) - Protein Information

### Name Tp53rkb {ECO:0000305}

**Function** Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that read codons





beginning with adenine. The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37. TP53RK has ATPase activity in the context of the EKC/KEOPS complex and likely plays a supporting role to the catalytic subunit OSGEP (By similarity). Atypical protein kinase that phosphorylates 'Ser-15' of p53/TP53 protein and may therefore participate in its activation (By similarity).

#### **Cellular Location**

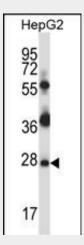
Nucleus {ECO:0000250|UniProtKB:Q96S44}.

### Mouse Tp53rk Antibody (Center) - Protocols

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

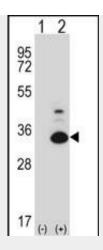
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## Mouse Tp53rk Antibody (Center) - Images

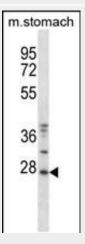


Mouse Tp53rk Antibody (Center) (Cat. #AP14294c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the Tp53rk antibody detected the Tp53rk protein (arrow).





Western blot analysis of Tp53rk (arrow) using rabbit polyclonal Mouse Tp53rk Antibody (Center) (Cat. #AP14294c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the Tp53rk gene.



Mouse Tp53rk Antibody (Center) (Cat. #AP14294c) western blot analysis in mouse stomach tissue lysates (35ug/lane). This demonstrates the Tp53rk antibody detected the Tp53rk protein (arrow).

# Mouse Tp53rk Antibody (Center) - Background

Tp53rk is a protein kinase that phosphorylates 'Ser-15' of p53/TP53 protein and may therefore participate in its activation (By similarity).

# Mouse Tp53rk Antibody (Center) - References

Blackshaw, S., et al. PLoS Biol. 2 (9), E247 (2004): Abe, Y., et al. J. Biol. Chem. 276(47):44003-44011(2001)