

**TP53RK Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17010b**

## Specification

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### TP53RK Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	<a href="#">O96S44</a>
Other Accession	<a href="#">O99PW4</a> , <a href="#">NP_291028.3</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	28160
Antigen Region	221-250

### TP53RK Antibody (C-term) - Additional Information

**Gene ID** 112858

#### Other Names

TP53-regulating kinase, Atypical serine/threonine protein kinase TP53RK, EKC/KEOPS complex subunit TP53RK, 36--, Nori-2, p53-related protein kinase, TP53RK, C20orf64, PRPK

#### Target/Specificity

This TP53RK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 221-250 amino acids from the C-terminal region of human 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

TP53RK Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### TP53RK Antibody (C-term) - Protein Information

**Name** TP53RK ([HGNC:16197](#))

**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 (PubMed:[22912744](#), PubMed:[27903914](#)). The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37 (PubMed:[22912744](#), PubMed:[27903914](#)). 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 (PubMed:[11546806](#)).

**Cellular Location**

Cytoplasm. Nucleus

**Tissue Location**

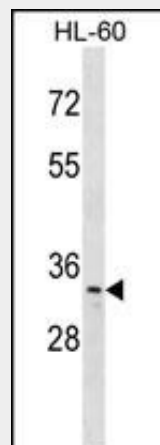
Highly expressed in testis. Weakly expressed in heart kidney and spleen.

**TP53RK Antibody (C-term) - Protocols**

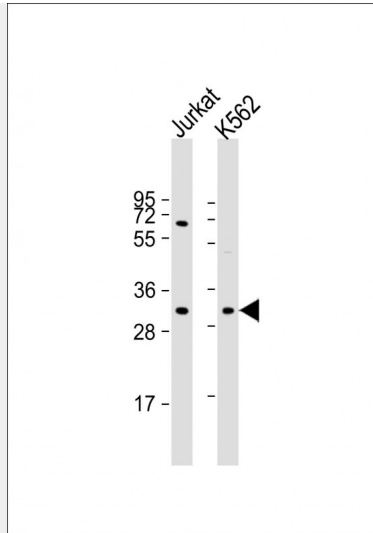
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**TP53RK Antibody (C-term) - Images**



TP53RK Antibody (C-term) (Cat. #AP17010b) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the TP53RK antibody detected the TP53RK protein (arrow).



All lanes : Anti-TP53RK Antibody (C-term) at 1:1000 dilution Lane 1: Jurkat whole cell lysate Lane 2: K562 whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

#### **TP53RK Antibody (C-term) - Background**

Protein kinase that phosphorylates 'Ser-15' of p53/TP53 protein and may therefore participate in its activation.

#### **TP53RK Antibody (C-term) - References**

- Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)  
Facchin, S., et al. Cell. Mol. Life Sci. 64 (19-20), 2680-2689 (2007) :  
Abe, Y., et al. Biochem. Biophys. Res. Commun. 344(1):377-385(2006)  
Facchin, S., et al. FEBS Lett. 549 (1-3), 63-66 (2003) :  
Miyoshi, A., et al. Biochem. Biophys. Res. Commun. 303(2):399-405(2003)

#### **TP53RK Antibody (C-term) - Citations**

- [Defects in tA tRNA modification due to GON7 and YRDC mutations lead to Galloway-Mowat syndrome.](#)