

**TP53RK Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17010b****Specification**

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**TP53RK Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q96S44](#)**TP53RK Antibody (C-term) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**TP53RK Antibody (C-term) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/22912744" target="\_blank">22912744</a>, PubMed:<a href="http://www.uniprot.org/citations/27903914" target="\_blank">27903914</a>). The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37 (PubMed:<a href="http://www.uniprot.org/citations/22912744" target="\_blank">22912744</a>, PubMed:<a href="http://www.uniprot.org/citations/27903914" target="\_blank">27903914</a>). 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:<a href="http://www.uniprot.org/citations/11546806" target="\_blank">11546806</a>).

**Cellular Location**

Cytoplasm. Nucleus

**Tissue Location**

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

### **TP53RK Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **TP53RK Antibody (C-term) Blocking Peptide - Images**

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

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

### **TP53RK Antibody (C-term) Blocking Peptide - 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)