

**PRPK / TP53RK Antibody (clone 4B9-1H3)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS13503****Specification**

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**PRPK / TP53RK Antibody (clone 4B9-1H3) - Product Information**

Application	IHC
Primary Accession	<a href="#">O96S44</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	28kDa KDa

**PRPK / TP53RK Antibody (clone 4B9-1H3) - Additional Information****Gene ID** 112858**Other Names**

TP53-regulating kinase, 2.7.11.1, Atypical serine/threonine protein kinase TP53RK, EKC/KEOPS complex subunit TP53RK, 3.6.-., Nori-2, p53-related protein kinase, TP53RK, C20orf64, PRPK

**Reconstitution & Storage**

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

**Precautions**

PRPK / TP53RK Antibody (clone 4B9-1H3) is for research use only and not for use in diagnostic or therapeutic procedures.

**PRPK / TP53RK Antibody (clone 4B9-1H3) - 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

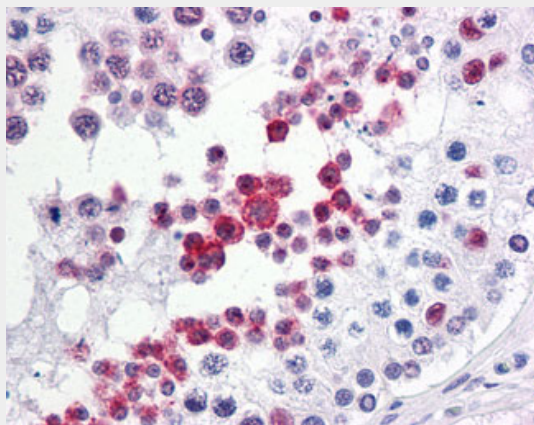
**Tissue Location**

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

**PRPK / TP53RK Antibody (clone 4B9-1H3) - 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](#)

**PRPK / TP53RK Antibody (clone 4B9-1H3) - Images**

Anti-TP53RK antibody IHC of human testis.

**PRPK / TP53RK Antibody (clone 4B9-1H3) - Background**

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.

**PRPK / TP53RK Antibody (clone 4B9-1H3) - References**

- Abe Y.,et al.J. Biol. Chem. 276:44003-44011(2001).  
Abe Y.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Deloukas P.,et al.Nature 414:865-871(2001).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.