

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

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

Application	IHC
Primary Accession	O96S44
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: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

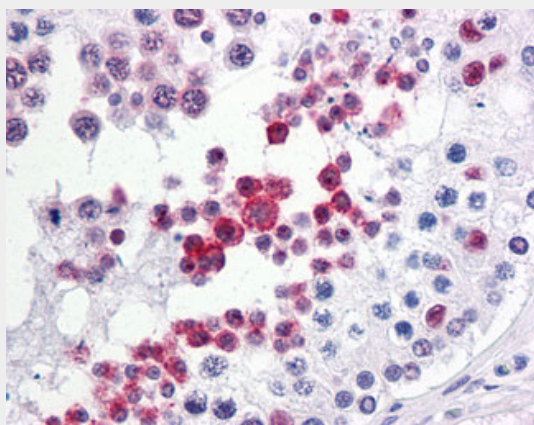
Tissue Location

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

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.