

**TPRKB Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP56590**

**Specification**

**TPRKB Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">O9Y3C4</a>
Reactivity	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TPRKB
Epitope Specificity	1-100/175
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus.
SIMILARITY	Belongs to the CGI121/TPRKB family.
SUBUNIT	Component of the EKC/KEOPS complex composed of at least TP53RK, TPRKB, OSGEP and LAGE3; the whole complex dimerizes. Interacts with TP53RK/PRPK.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**TPRKB Polyclonal Antibody - Additional Information**

**Gene ID** 51002

**Other Names**

EKC/KEOPS complex subunit TPRKB, PRPK-binding protein, TP53RK-binding protein, TPRKB ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=24259](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=24259))  
HGNC:24259

**Target/Specificity**

Widely expressed.

**Dilution**

IHC-P~~N/A  
IHC-F~~N/A  
IF~~1:50~200  
ICC~~N/A  
E~~N/A

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**TPRKB Polyclonal Antibody - Protein Information**

**Name** TPRKB ([HGNC:24259](#))

**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/28805828" target="\_blank">28805828</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/28805828" target="\_blank">28805828</a>). TPRKB acts as an allosteric effector that regulates the t(6)A activity of the complex. TPRKB is not required for tRNA modification (PubMed:<a href="http://www.uniprot.org/citations/22912744" target="\_blank">22912744</a>, PubMed:<a href="http://www.uniprot.org/citations/28805828" target="\_blank">28805828</a>).

**Cellular Location**

Cytoplasm, cytosol. Nucleus

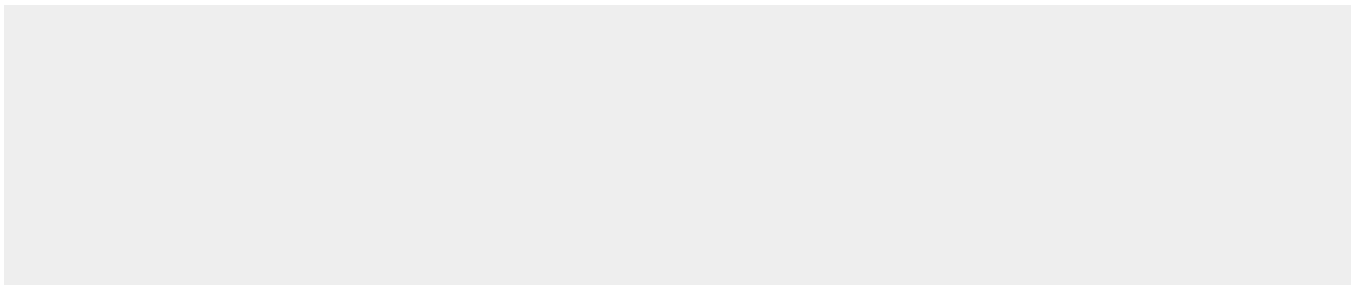
**Tissue Location**

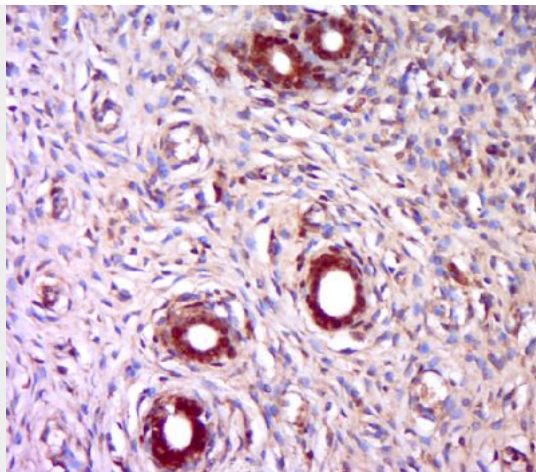
Widely expressed..

**TPRKB Polyclonal Antibody - 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](#)

**TPRKB Polyclonal Antibody - Images**



Paraformaldehyde-fixed, paraffin embedded (rat uterus tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TPRKB) Polyclonal Antibody, Unconjugated (bs-17175R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.