

**Cyclin T2 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58791****Specification**

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**Cyclin T2 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">O60583</a>
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Cyclin T2
Epitope Specificity	185-270/730
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	Nucleus.
SIMILARITY	Belongs to the cyclin family. Cyclin C subfamily.
SUBUNIT	Associates with CDK9 to form P-TEFb. Isoform 1 and isoform 2 interact with HIV-2 and SIV Tat. Does not bind efficiently to the transactivation domain of the HIV-1 Tat.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

Regulatory subunit of the cyclin-dependent kinase pair (CDK9/cyclin T) complex, also called positive transcription elongation factor B (P-TEFB), which is proposed to facilitate the transition from abortive to production elongation by phosphorylating the CTD (carboxy-terminal domain) of the large subunit of RNA polymerase II (RNAP II).

**Cyclin T2 Polyclonal Antibody - Additional Information****Gene ID** 905**Other Names**

Cyclin-T2, CCNT2 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=1600](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1600))  
HGNC:1600

**Target/Specificity**

Ubiquitously expressed.

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_E">E~~N/A</span>

**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.

**Cyclin T2 Polyclonal Antibody - Protein Information**

**Name** CCNT2 ([HGNC:1600](#))

**Function**

Regulatory subunit of the cyclin-dependent kinase pair (CDK9/cyclin T) complex, also called positive transcription elongation factor B (P-TEFB), which is proposed to facilitate the transition from abortive to production elongation by phosphorylating the CTD (carboxy- terminal domain) of the large subunit of RNA polymerase II (RNAP II) (PubMed:<a href="http://www.uniprot.org/citations/15563843" target="\_blank">15563843</a>, PubMed:<a href="http://www.uniprot.org/citations/9499409" target="\_blank">9499409</a>). The activity of this complex is regulated by binding with 7SK snRNA (PubMed:<a href="http://www.uniprot.org/citations/11713533" target="\_blank">11713533</a>). Plays a role during muscle differentiation; P-TEFB complex interacts with MYOD1; this tripartite complex promotes the transcriptional activity of MYOD1 through its CDK9-mediated phosphorylation and binds the chromatin of promoters and enhancers of muscle-specific genes; this event correlates with hyperphosphorylation of the CTD domain of RNA pol II (By similarity). In addition, enhances MYOD1-dependent transcription through interaction with PKN1 (PubMed:<a href="http://www.uniprot.org/citations/16331689" target="\_blank">16331689</a>). Involved in early embryo development (By similarity).

**Cellular Location**

Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q7TQK0}. Nucleus {ECO:0000250|UniProtKB:Q7TQK0} Note=Nucleus in differentiating cells. {ECO:0000250|UniProtKB:Q7TQK0}

**Tissue Location**

Ubiquitously expressed.

**Cyclin T2 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](#)

### **Cyclin T2 Polyclonal Antibody - Images**