

For Research Use Only

# TNP1 Polyclonal antibody, PBS Only

Catalog Number:17178-1-PBS



## Basic Information

<b>Catalog Number:</b> 17178-1-PBS	<b>GenBank Accession Number:</b> BC029516	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7141	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P09430	
<b>Isotype:</b> IgG	<b>Full Name:</b> transition protein 1 (during histone to protamine replacement)	
<b>Immunogen Catalog Number:</b> AG10890	<b>Calculated MW:</b> 55 aa, 7 kDa	
	<b>Observed MW:</b> 6-10 kDa	

## Applications

**Tested Applications:**  
WB, IF-P, IF-Fro, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Background Information

Transition nuclear proteins (TNP1 and TNP2) are the major nuclear proteins that replace somatic histones during spermatogenesis. TNPs are required for normal chromatin condensation and functional sperm development, spermatogenesis was found to be compromised in both Tnp1 and Tnp2 null mice. TNP1, or TP1, localized in nucleus, is a spermatid-specific product of the haploid genome which replaces histone and is itself replaced in the mature sperm by the protamines. Recently, TNP-1 was used as a germ cell marker in condensing spermatids.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

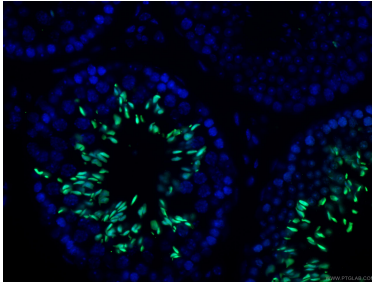
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

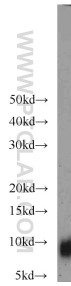
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

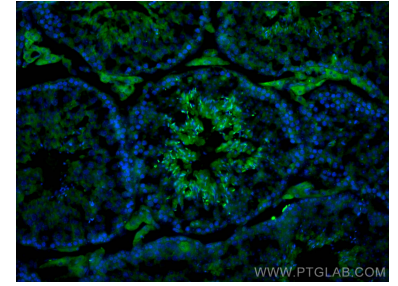
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using 17178-1-AP (TNP1 antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 17178-1-PBS in a different storage buffer formulation.



mouse testis tissue were subjected to SDS PAGE followed by western blot with 17178-1-AP (TNP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 17178-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse testis tissue using 17178-1-AP (TNP1 antibody) at dilution of 1:200 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 17178-1-PBS in a different storage buffer formulation.