

For Research Use Only

# CoraLite® Plus 647-conjugated TNP1 Polyclonal antibody



Catalog Number: CL647-17178

## Basic Information

<b>Catalog Number:</b> CL647-17178	<b>GenBank Accession Number:</b> BC029516	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7141	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> transition protein 1 (during histone to protamine replacement)	<b>Excitation/Emission maxima wavelengths:</b> 650 nm / 665 nm
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 55 aa, 7 kDa	
<b>Immunogen Catalog Number:</b> AG10890	<b>Observed MW:</b> 6-10 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : mouse testis tissue,
<b>Species Specificity:</b> 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

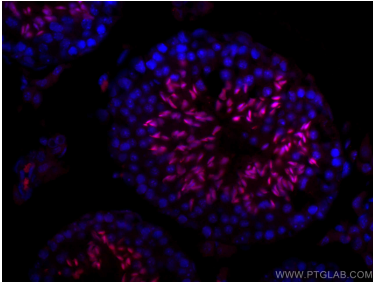
**Storage:**  
Store at -20°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

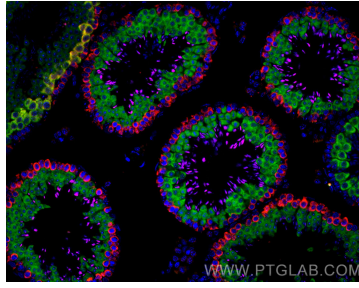
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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 CoraLite® Plus 647 TNP1 antibody (CL647-17178) at dilution of 1:50.



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using CoraLite® Plus 647 TNP1 antibody (CL647-17178) at dilution of 1:200, CoraLite® 594 DAZL antibody (CL594-12633, red), CoraLite® 488 BOULE antibody (CL488-13720, green).