For Research Use Only

CoraLite® Plus 647-conjugated TNP1 Polyclonal antibody

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Catalog Number:CL647-17178

Basic Information

Catalog Number:
CL647-17178

Size:
100ul , Concentration: 1000 µg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10890

GenBank Accession Number:
BC029516

GeneID (NCBI):
7141

UNIPROT ID:
P09430

Full Name:
transition protein 1 (during histone to protamine replacement)

Calculated MW:
55 aa, 7 kDa

Observed MW:
6-10 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IF-P 1:50-1:500

Excitation/Emission maxima wavelengths:
654 nm / 674 nm

Applications

Tested Applications:
IF

Species Specificity:
human, mouse, rat

Positive Controls:

IF-P : mouse testis tissue,

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.

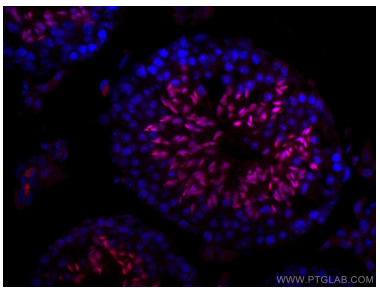
Storage

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

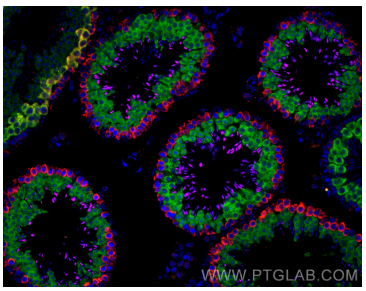
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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).