

For Research Use Only

TNP1 Polyclonal antibody

Catalog Number: 17178-1-AP

23 Publications



Basic Information

Catalog Number:

17178-1-AP

Concentration:

800 ug/ml

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:

WB: 1:500-1:2000

IF-P: 1:50-1:500

IF-Fro: 1:50-1:500

Applications

Tested Applications:

WB, IF-P, IF-Fro, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : mouse testis tissue,

IF-P : mouse testis tissue,

IF-Fro : 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.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------|-----------|----------------|-------------|
| Zijun Peng | 34741939 | J Hazard Mater | IF,IHC |
| Yi Yu | 33046149 | Zygote | IF |
| Akane Morohoshi | 30391586 | Dev Biol | IF |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

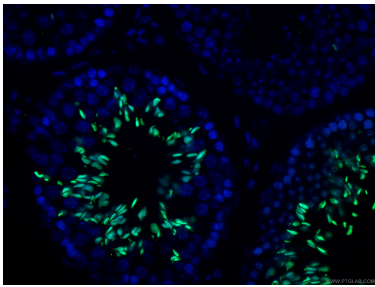
T: 4006900926

E: Proteintech-CN@ptglab.com

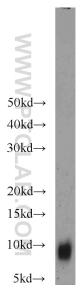
W: ptgcn.com

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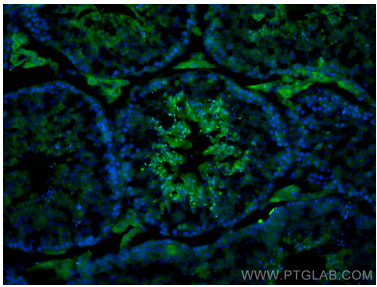
Selected Validation Data



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).



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.



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).