

For Research Use Only

TNP1 Polyclonal antibody

Catalog Number: 17178-1-AP **20 Publications**



Basic Information

Catalog Number: 17178-1-AP	GenBank Accession Number: BC029516	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1200 ug/ml by Nanodrop;	GeneID (NCBI): 7141	Recommended Dilutions: WB 1:500-1:2000 IF-P 1:50-1:500 IF-Fro 1:50-1:500
Source: Rabbit	UNIPROT ID: P09430	
Isotype: IgG	Full Name: transition protein 1 (during histone to protamine replacement)	
Immunogen Catalog Number: AG10890	Calculated MW: 55 aa, 7 kDa	
	Observed MW: 6-10 kDa	

Applications

Tested Applications: WB, IF-P, IF-Fro, ELISA	Positive Controls: WB : mouse testis tissue, IF-P : mouse testis tissue, IF-Fro : mouse testis tissue,
Cited Applications: WB, IHC, IF	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	

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

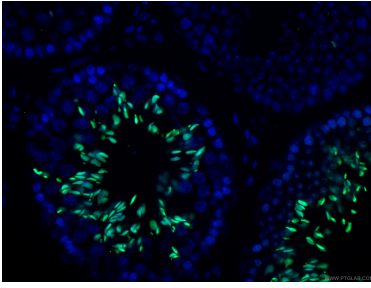
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

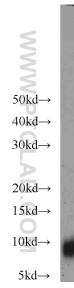
For technical support and original validation data for this product please contact:
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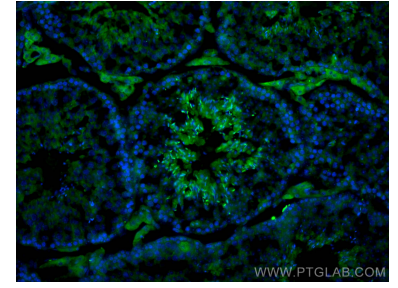
Selected Validation Data



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).