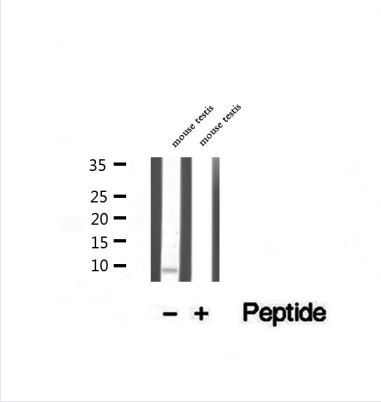
TNP1 Antibody – Rabbit Polyclonal

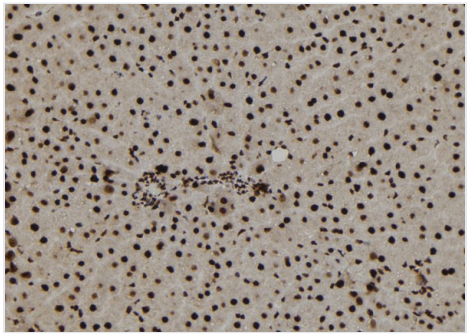
PRODUCT OVERVIEW

Product Name	TNP1, Polyclonal Antibody
Full Product Name	TNP1 Antibody
Product Gene Name	anti-TNP1 antibody
Product Synonym Names	Spermatid nuclear transition protein 1; Spermatid nuclear transition protein1; STP 1; STP-1; STP1; STP1_HUMAN; TNP 1; TNP1; TP 1; TP-1; TP1; Transition protein 1 (during histone to protamine replacement); Transition protein1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	TNP1 antibody detects endogenous levels of TNP1.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	TNP1 peptide (MBS9621040) is used for blocking the activity of TNP1 antibody (MBS9603563)
Molecular Weight	Observed: 6-10 kDa Predicted: 7 kDa
3D Structure	ModBase 3D Structure for P09430
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human TNP1.
Subcellular Location	Nucleus. Chromosome.
Tissue Specificity	Expressed by spermatids (at protein level).
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep, Rabbit, Dog**
Similarity	Pig (100%), Bovine (92%), Horse (100%), Sheep (92%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TNP1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-TNP1 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-TNP1 antibody	Function: Plays a key role in the replacement of histones to protamine in the elongating spermatids of mammals. In condensing spermatids, loaded onto the nucleosomes, where it promotes the recruitment and processing of protamines, which are responsible for histone eviction. Similarity: Belongs to the nuclear transition protein 1 family.

Other Notes	Small volumes of anti-TNP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TNP1 purchase	MBS9603563 is an antibody targeting TNP1. Also known as TNP1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-TNP1 antibody
Western blot analysis of extracts of mouse testis tissue, using TNP1 antibody.



Immunohistochemistry (IHC) of anti-TNP1 antibody
MBS9603563 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TNP1. It may not necessarily be applicable to this product.

NCBI GI #	4507629
NCBI GeneID	7141
NCBI Accession #	NP_003275.1
UniProt Primary Accession #	P09430
UniProt Related Accession #	P09430
GenBank Nucleotide #	NM_003284.3
NCBI Official Full Name	spermatid nuclear transition protein 1
NCBI Official Synonym Full Names	transition protein 1
NCBI Official Symbol	TNP1
NCBI Official Synonym Symbols	TP1
UniProt Protein Name	Spermatid nuclear transition protein 1
Protein Family	Spermatid nuclear transition protein
UniProt Gene Name	TNP1
UniProt Synonym Gene Names	STP-1; TP-1
NCBI Protein Information	spermatid nuclear transition protein 1
NCBI Summary for TNP1	Transition protein-1 is a spermatid-specific product of the haploid genome which replaces histone and is itself replaced in the mature sperm by the protamines (see PRM1, MIM 182880; PRM2, MIM 182890) (Luerssen et al., 1990 [PubMed 2249851]).[supplied by OMIM, Mar 2008]
UniProt Comments for TNP1	Plays a key role in the replacement of histones to protamine in the elongating spermatids of mammals. In condensing spermatids, loaded onto the nucleosomes, where it promotes the recruitment and processing of protamines, which are responsible for histone eviction.

Research Articles on TNP1	**1.** Among Systemic lupus erythematosus patients, 63.6% and 45.5% of those with lupus nephritis were positive for anti-RRP8 and anti-TNP1 antibodies, compared with 12.5% and 9.4% of Systemic lupus erythematosus patients without nephritis, respectively.
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