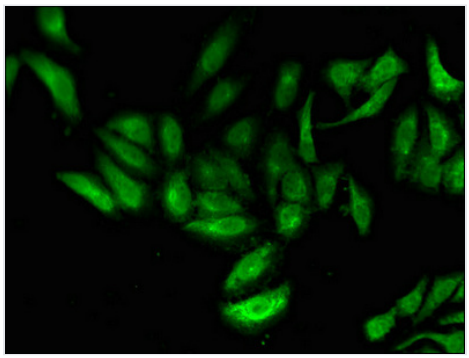
TNP1 Antibody – Rabbit Polyclonal

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; STP-1; TP-1; TNP1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: TNP1 (MBS7049316) HRP Conjugated Antibody: TNP1 (MBS7049317)
Matching Pairs	Unconjugated Antibody: TNP1 (MBS7049316) FITC Conjugated Antibody: TNP1 (MBS7049318)
Matching Pairs	Unconjugated Antibody: TNP1 (MBS7049316) Biotin Conjugated Antibody: TNP1 (MBS7049319)
Molecular Weight	6,424 Da
OMIM	M59924 Genomic DNA
3D Structure	ModBase 3D Structure for P09430
Immunogen	Recombinant Human Spermatid nuclear transition protein 1 protein (12-50AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-134100 / sc-169653
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TNP1 antibody	ELISA (EIA), Immunofluorescence (IF)
Application Notes for anti-TNP1 antibody	IF: 1: 50-1: 200
Related Product Information for anti-TNP1 antibody	In the elongating spermatids of mammals, the conversion of nucleosomal chromatin to the compact, non-nucleosomal form found in the sperm nucleus is associated with the appearance of a small set of basic chromosomal transition proteins.
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	MBS7049316 is an antibody targeting TNP1. Also known as TNP1 Antibody. Reactive in Human. Host: Rabbit.



Immunofluorescence (IF) of anti-TNP1 antibody
Immunofluorescent analysis of Hela cells using MBS7049316 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

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
UniProt Entry Name	STP1_HUMAN
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	TP1: In the elongating spermatids of mammals, the conversion of nucleosomal chromatin to the compact, non-nucleosomal form found in the sperm nucleus is associated with the appearance of a small set of basic chromosomal transition proteins. Belongs to the nuclear transition protein 1 family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 2q35-q36 Cellular Component: male germ cell nucleus; nucleosome Molecular Function: DNA binding; protein binding Biological Process: chromatin remodeling; chromatin silencing; fertilization, exchange of chromosomal proteins; negative regulation of transcription, DNA-dependent; nucleosome disassembly; sexual reproduction; single strand break repair; sperm motility; spermatid development; spermatid nuclear differentiation; spermatid nuclear elongation
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.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/tnp1/7049316