

TNP1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant TNP1.

Catalog # AT4294a

Product Information

Application	WB, IHC, E
Primary Accession	P09430
Other Accession	BC029516
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b kappa
Clone Names	1B5
Calculated MW	6424

Additional Information

Gene ID	7141
Other Names	Spermatid nuclear transition protein 1, STP-1, TP-1, TNP1
Target/Specificity	TNP1 (AAH29516.1, 1 a.a. ~ 55 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TNP1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

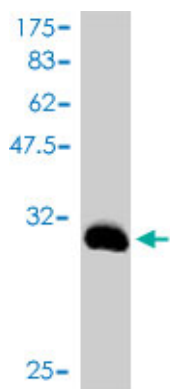
Transition protein-1 is a spermatid-specific product of the haploid genome which replaces histone and is itself replaced in the mature sperm by the protamines (see PRM1, MIM 182880; PRM2, MIM 182890) (Luerksen et al., 1990 [PubMed 2249851]).

References

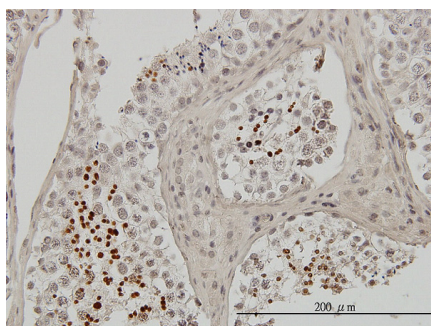
The TNP1 haplotype - GCG is associated with azoospermia. Khattri A, et al. Int J Androl, 2010 May 26. PMID 20522125. Evaluation of 172 candidate polymorphisms for association with oligozoospermia or azoospermia in a large cohort of men of European descent. Aston KI, et al. Hum Reprod, 2010 Jun. PMID 20378615. Genome-wide association study reveals multiple loci associated with primary tooth development

during infancy. Pillas D, et al. PLoS Genet, 2010 Feb 26. PMID 20195514. A multistage genome-wide association study in breast cancer identifies two new risk alleles at 1p11.2 and 14q24.1 (RAD51L1). Thomas G, et al. Nat Genet, 2009 May. PMID 19330030. Spermiogenesis defects in human: detection of transition proteins in semen from some infertile men. Becker S, et al. Andrologia, 2008 Aug. PMID 18727729.

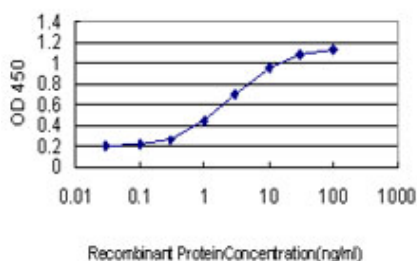
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (31.79 KDa) .



Immunoperoxidase of monoclonal antibody to TNP1 on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged TNP1 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.