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TNP1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant TNP1.
Catalog # AT4294a

Specification

TNP1 Antibody (monoclonal) (M01) - Product Information

Application	**WB, IHC, E**
Primary Accession	P09430
Other Accession	BC029516
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b kappa**
Calculated MW	**6424**

TNP1 Antibody (monoclonal) (M01) - 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

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.

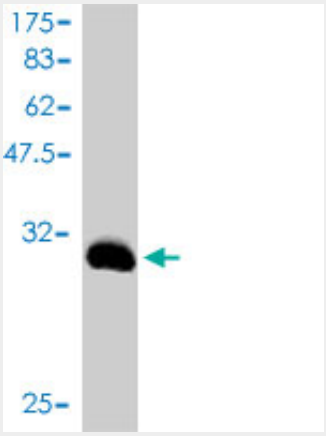
TNP1 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

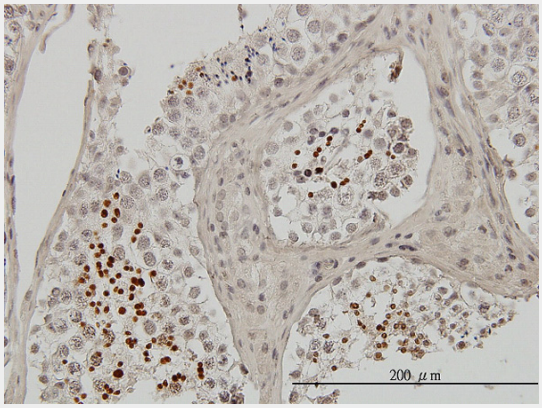
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

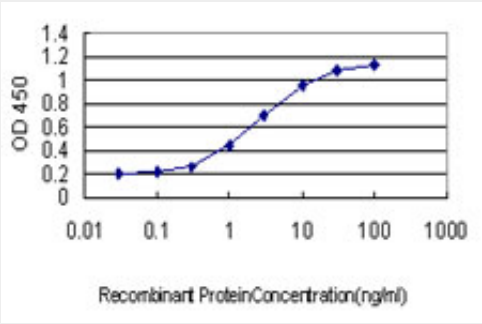
TNP1 Antibody (monoclonal) (M01) - Images



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.

TNP1 Antibody (monoclonal) (M01) - 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) (Luerssen et al., 1990 [PubMed 2249851]).

TNP1 Antibody (monoclonal) (M01) - 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.