Mouse Spermatid Nuclear Transition Protein 1 (TNP1) ELISA Kit | TNP1 elisa kit

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CATALOG #	REACTIVITY
AAA332109	**Mouse**

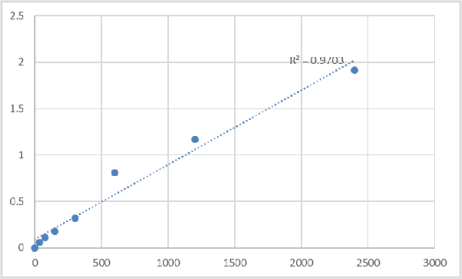
PRODUCT SYNONYMS

Spermatid Nuclear Transition Protein 1 (TNP1); Mouse Spermatid Nuclear Transition Protein 1 (TNP1) ELISA Kit; TNP1; TP1; TNP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Spermatid nuclear transition protein 1 (TNP1) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TNP1. No significant cross-reactivity or interference between Mouse TNP1 and analogues was observed.
Sequence Length	55
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)
Fig.1. Mouse Spermatid nuclear transition protein 1 (TNP1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TNP1 elisa kit	Description: This Mouse Spermatid nuclear transition protein 1 (TNP1) ELISA Kit employs a two-site sandwich ELISA to quantitate TNP1 in samples. An antibody specific for TNP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TNP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TNP1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TNP1 bound in the initial step. The color development is stopped and the intensity of the color is measured. 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. Yu et al. (2000) generated mice lacking the major transition nuclear protein, TP1, by targeted deletion of the Tnp1 gene in mouse embryonic stem cells. Surprisingly, testis weights and sperm production were normal in the mutant mice, and only subtle abnormalities were detected in sperm morphology. Electron microscopy showed large rod-like structures in the chromatin of mutant step 13 spermatids, in contrast to the fine chromatin fibrils observed in wildtype. Steps 12-13 spermatid nuclei from the testis of Tnp1-null mice contained, in place of TP1, elevated levels of TP2 (TNP2) and some PRM2 precursor.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6678395
NCBI GeneID	21958
NCBI Accession #	NP_033433.1
NCBI GenBank Nucleotide #	NP_033433.1
UniProt Accession #	P10856
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; Tp-1; Stp-1
NCBI Protein Information	spermatid nuclear transition protein 1
UniProt Protein Name	Spermatid nuclear transition protein 1
UniProt Gene Name	**Tnp1**
UniProt Synonym Gene Names	STP-1; TP-1
UniProt Entry Name	STP1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/mouse-elisa-kits/spermatid-nuclear-transition-protein-1-tnp1/332109