

Rat Tropomyosin Alpha 1 chain (TPM1) ELISA Kit | TPM1 elisa kit

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CATALOG #
AAA246257

REACTIVITY
Rat

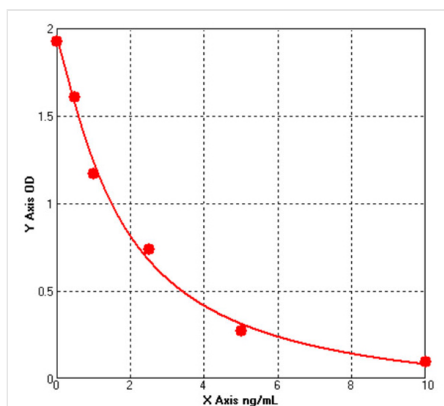
PRODUCT SYNONYMS

Tropomyosin Alpha 1 chain (TPM1); Rat Tropomyosin Alpha 1 chain (TPM1) ELISA Kit; TPM1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of TPM1. No significant cross-reactivity or interference between TPM1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between TPM1 and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TPM1 elisa kit	Principle of the Assay: TPM1 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-TPM1 antibody and an TPM1-HRP conjugate. The assay sample and buffer are incubated together with TPM1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the TPM1 concentration since TPM1 from samples and TPM1-HRP conjugate compete for the anti-TPM1 antibody binding site. Since the number of sites is limited, as more sites are occupied by TPM1 from the sample, fewer sites are left to bind TPM1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The TPM1 concentration in each sample is interpolated from this standard curve. Intended Uses: This TPM1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat TPM1. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for TPM1 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	63252898
NCBI GeneID	7168
NCBI Accession #	NP_001018005.1
NCBI GenBank Nucleotide #	NM_001018005.1
Molecular Weight	32,866 Da
NCBI Official Full Name	tropomyosin alpha-1 chain isoform Tpm1.1st
NCBI Official Synonym Full Names	tropomyosin 1 (alpha)
NCBI Official Symbol	TPM1
NCBI Official Synonym Symbols	CMH3; TMSA; CMD1Y; LVNC9; C15orf13; HTM-alpha
NCBI Protein Information	tropomyosin alpha-1 chain; alpha-tropomyosin; sarcomeric tropomyosin kappa; cardiomyopathy, hypertrophic 3
UniProt Protein Name	Tropomyosin alpha-1 chain
UniProt Gene Name	TPM1
UniProt Synonym Gene Names	C15orf13; TMSA
UniProt Entry Name	TPM1_HUMAN

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://stage.aaabiotech.com/rat-elisa-kits/tropomyosin-alpha-1-chain-tpm1/246257>