

Rat Tropomyosin beta Chain (TPM2) ELISA Kit | TPM2 elisa kit

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CATALOG #
AAA330173

REACTIVITY
Rat

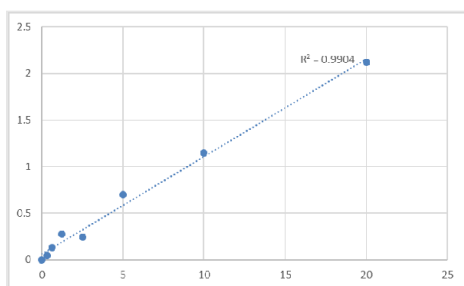
PRODUCT SYNONYMS

Tropomyosin beta Chain (TPM2); Rat Tropomyosin beta Chain (TPM2) ELISA Kit; TPM2; RP11-112J3.4; AMCD1; DA1; DA2B; NEM4; TMSB; TPM2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Rat Tropomyosin beta chain (TPM2) ELISA Kit has high sensitivity and excellent specificity for detection of Rat TPM2. No significant cross-reactivity or interference between Rat TPM2 and analogues was observed.
Sequence Length	284
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. Rat Tropomyosin beta chain (TPM2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TPM2 elisa kit	Description: This Rat Tropomyosin beta chain (TPM2) ELISA Kit employs a two-site sandwich ELISA to quantitate TPM2 in samples. An antibody specific for TPM2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TPM2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPM2 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 TPM2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: TPM2 is beta-tropomyosin, a member of the actin filament binding protein family, and mainly expressed in slow, type 1 muscle fibers. Mutations in this gene can alter the expression of other sarcomeric tropomyosin proteins, and cause cap disease, nemaline myopathy and distal arthrogryposis syndromes. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. TPM2 gene in 14 probands with DA1. Only a single mutation was found. This was a C-to-G transversion in nucleotide 271 that resulted in an arginine-to-glycine substitution at amino acid residue 91 (arg91 to gly). It was found in the proband and affected family members of the kindred originally used to map DA1 to chromosome 9.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20178272
NCBI GeneID	100125984
UniProt Accession #	P58776
NCBI Official Full Name	Tropomyosin beta chain
NCBI Official Symbol	TPM2
NCBI Protein Information	tropomyosin beta chain
UniProt Protein Name	Tropomyosin beta chain
UniProt Gene Name	TPM2
UniProt Entry Name	TPM2_RABIT

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.