

Mouse Transketolase (TKT) ELISA Kit | TKT elisa kit

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CATALOG #
AAA332229

REACTIVITY
Mouse

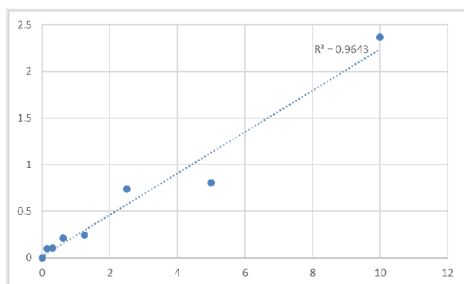
PRODUCT SYNONYMS

Transketolase (TKT); Mouse Transketolase (TKT) ELISA Kit; TKT; FLJ34765; TKT1; TKT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Transketolase (TKT) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TKT. No significant cross-reactivity or interference between Mouse TKT and analogues was observed.
Sequence Length	623
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 Transketolase (TKT) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TKT elisa kit	Description: This Mouse Transketolase (TKT) ELISA Kit employs a two-site sandwich ELISA to quantitate TKT in samples. An antibody specific for TKT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TKT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TKT 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 TKT bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Transketolase (EC 2.2.1.1) is a thiamine-dependent enzyme that links the pentose phosphate pathway with the glycolytic pathway. The pentose phosphate pathway, which is active in most tissues, provides sugar phosphates for intermediary biosynthesis, especially nucleotide metabolism, and generates the biosynthetic reducing power for the cell in the form of NADPH. Transketolase is directly involved in the branch of the pathway that channels excess sugar phosphates to glycolysis, enabling the production of NADPH to be maintained under different metabolic conditions. NADPH is critical for maintaining cerebral glutathione, and thus it is likely that transketolase plays an important role in brain metabolism.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6678359
NCBI GeneID	21881
NCBI Accession #	NP_033414.1
NCBI GenBank Nucleotide #	NP_033414.1
UniProt Accession #	P40142
NCBI Official Full Name	transketolase
NCBI Official Synonym Full Names	transketolase
NCBI Official Symbol	Tkt
NCBI Official Synonym Symbols	p68
NCBI Protein Information	transketolase
UniProt Protein Name	Transketolase
UniProt Gene Name	Tkt
UniProt Synonym Gene Names	TK
UniProt Entry Name	TKT_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://stage.aaabiotech.com/mouse-elisa-kits/transketolase-tkt/332229>