

Mouse Mitochondrial Import Inner Membrane Translocase Subunit TIM44 (TIMM44) ELISA Kit | TIMM44 elisa kit

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CATALOG # AAA332240	REACTIVITY Mouse
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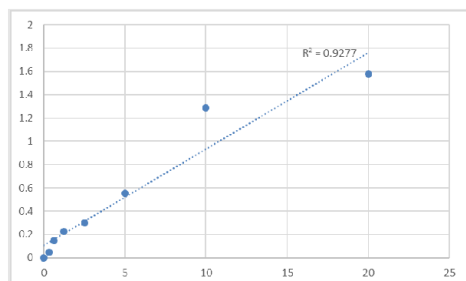
PRODUCT SYNONYMS

Mitochondrial Import Inner Membrane Translocase Subunit TIM44 (TIMM44); Mouse Mitochondrial Import Inner Membrane Translocase Subunit TIM44 (TIMM44) ELISA Kit; DKFZp686H05241; TIM44; mitochondrial inner membrane translocase; translocase of inner mitochondrial membrane 44; TIMM44 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Mitochondrial import inner membrane translocase subunit TIM44 (TIMM44) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TIMM44. No significant cross-reactivity or interference between Mouse TIMM44 and analogues was observed.
Sequence Length	452
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 Mitochondrial import inner membrane translocase subunit TIM44 (TIMM44) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TIMM44 elisa kit	Description: This Mouse Mitochondrial import inner membrane translocase subunit TIM44 (TIMM44) ELISA Kit employs a two-site sandwich ELISA to quantitate TIMM44 in samples. An antibody specific for TIMM44 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TIMM44 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TIMM44 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 TIMM44 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: TIM44, a peripheral inner membrane protein, tethers mitochondrial HSP70 to the import channel. A model peptide substrate rapidly released mitochondrial HSP70 from TIM44, even in the absence of ATP hydrolysis. In vivo, the analogous interaction of translocating polypeptide would release mitochondrial HSP70 from the channel. TIMM44 is hydrophilic and contains no hydrophobic membrane-spanning segments. The N terminus has a coiled-coil motif and a matrix-targeting segment with 6 positively and no negatively charged residues. Western blot analysis showed that TIMM44 is present in membranes as well as matrix and is most likely a 45-kD peripheral membrane protein loosely associated with the inner membrane of mitochondria.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	170763467
NCBI GeneID	21856
NCBI Accession #	NP_035722.2
NCBI GenBank Nucleotide #	NP_035722.2
UniProt Accession #	O35857
NCBI Official Full Name	mitochondrial import inner membrane translocase subunit TIM44
NCBI Official Synonym Full Names	translocase of inner mitochondrial membrane 44
NCBI Official Symbol	Timm44
NCBI Official Synonym Symbols	Tim44; Mimt44; D8Erttd118e; 0710005E20Rik
NCBI Protein Information	mitochondrial import inner membrane translocase subunit TIM44
UniProt Protein Name	Mitochondrial import inner membrane translocase subunit TIM44
UniProt Gene Name	Timm44
UniProt Synonym Gene Names	Mimt44; Tim44
UniProt Entry Name	TIM44_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/mitochondrial-import-inner-membrane-translocase-subunit-tim44-timm44/332240>