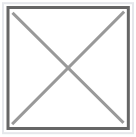
Tsukushin (TSK) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Tsukushin (TSK), ELISA Kit
Full Product Name	Mouse Tsukushin (TSK) ELISA Kit
Product Gene Name	TSK elisa kit
Product Synonym Names	TSK/Tsukushin; E2IG4; TSKU; LRRC54; Tsukushi; E2-induced gene 4 protein; Leucine Rich Repeat Containing 54; Tsukushi Small Leucine Rich Proteoglycan Homolog
Species Reactivity	Mouse
Assay Type	Quantitative Sandwich
Samples	Mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	15.6-1,000pg/mL
Sensitivity	< 6.0pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of tsukushin. No significant cross-reactivity or interference between tsukushin and analogues was observed.
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term(within shelf life) Shelf Life: 8 months The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level tsukushin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level tsukushin were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	38,362 Da
3D Structure	ModBase 3D Structure for Q8CBR6
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Product Categories/Family for TSK elisa kit	Metabolic pathway
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Application Notes for TSK elisa kit	Enzyme-linked immunosorbent assay for Antigen Detection.

Related Product Information for TSK elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to tsukushin. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to tsukushin. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain tsukushin, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of tsukushin in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of tsukushin in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Other Notes	Small volumes of TSK elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TSK purchase	MBS2127374 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Tsukushin (TSK) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing TSK. The ELISA analytical biochemical technique of the MBS2127374 kit is based on TSK antibody-TSK antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TSK antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TSK. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of TSK elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TSK. It may not necessarily be applicable to this product.

NCBI GI #	67972425
NCBI GeneID	244152
NCBI Accession #	NP_001019790.1
UniProt Primary Accession #	Q8CBR6
UniProt Secondary Accession #	Q4W655
UniProt Related Accession #	Q8CBR6
GenBank Nucleotide #	NM_001024619.3
NCBI Official Full Name	tsukushin
NCBI Official Synonym Full Names	tsukushi, small leucine rich proteoglycan
NCBI Official Symbol	Tsku
NCBI Official Synonym Symbols	Tsk; E2ig4; Lrrc54; 9530051K01Rik
UniProt Protein Name	Tsukushin
UniProt Synonym Protein Names	Leucine-rich repeat-containing protein 54
Protein Family	Protein TONSOKU
UniProt Gene Name	Tsku
UniProt Synonym Gene Names	Lrrc54; Tsk; Tsukushi

UniProt Entry Name	TSK_MOUSE
NCBI Protein Information	tsukushin
UniProt Comments for TSK	TSKU: Induced by 17-beta-estradiol. Protein type: Secreted, signal peptide; Secreted Cellular Component: extracellular space; extracellular region Molecular Function: protein binding Biological Process: camera-type eye development; negative regulation of Wnt receptor signaling pathway; anterior commissure morphogenesis; regulation of gene expression; corpus callosum morphogenesis; lateral ventricle development
Research Articles on TSK	**1.** The combinatorial guidance activities of draxin and Tsukushi are essential for forebrain commissure formation
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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