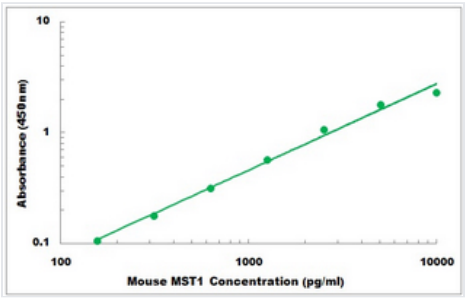
MST1 (STK4) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	MST1 (STK4), ELISA Kit
Full Product Name	Mouse MST1 ELISA Kit
Product Gene Name	STK4 elisa kit
Product Synonym Names	KRS2; MST1; Serine/threonine-protein kinase 4; Mammalian STE20-like protein kinase 1; MST-1; STE20-like kinase MST1; Serine/threonine-protein kinase Krs-2
Species Reactivity	Mouse
Assay Type	Sandwich
Samples	Cell Culture Supernatants, Serum, Plasma
Detection Range	156 pg/ml - 10000 pg/ml
Sensitivity	10 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	55,541 Da
3D Structure	ModBase 3D Structure for Q9JI11
Detection Method	Colorimetric
Applications Tested/Suitable for STK4 elisa kit	Sandwich ELISA (SE)
Related Product Information for STK4 elisa kit	Sandwich ELISA for quantitative detection of Mouse MST1 concentrations.
Other Notes	Small volumes of STK4 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 STK4 purchase	MBS824922 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the MST1 (STK4) 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 STK4. The ELISA analytical biochemical technique of the MBS824922 kit is based on STK4 antibody-STK4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect STK4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, STK4. 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 STK4 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STK4. It may not necessarily be applicable to this product.

NCBI GI #	12328814
NCBI GeneID	58231
NCBI Accession #	NP_067395.1
UniProt Primary Accession #	Q9JI11
UniProt Related Accession #	Q9JI11
GenBank Nucleotide #	NM_021420.3
NCBI Official Full Name	serine/threonine-protein kinase 4
NCBI Official Synonym Full Names	serine/threonine kinase 4
NCBI Official Symbol	Stk4
NCBI Official Synonym Symbols	Mst1; Ysk3; Kas-2; AI447339; AU020804
UniProt Protein Name	Serine/threonine-protein kinase 4
UniProt Synonym Protein Names	Mammalian STE20-like protein kinase 1; MST-1; STE20-like kinase MST1Cleaved into the following 2 chains:Serine/threonine-protein kinase 4 37kDa subunit; MST1/N; Serine/threonine-protein kinase 4 18kDa subunit; MST1/C
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	Stk4
UniProt Synonym Gene Names	Mst1; MST-1; MST1/N; MST1/C
UniProt Entry Name	STK4_MOUSE
NCBI Protein Information	serine/threonine-protein kinase 4; MST-1; STE20-like kinase MST1; sterile 20-like kinase 1; Yeast Sps1/Ste20-related kinase 3; mammalian STE20-like protein kinase 1
UniProt Comments for STK4	MST1: a protein kinase of the STE20 family. Proteolytically activated by caspase during apoptosis. Activated by apoptotic signals as well as other stress conditions. Full activation requires both phosphorylation and caspase-mediated cleavage. Phosphorylation at serine 327 of Mst1, which is close to the caspase-3 recognition site, inhibits caspase-mediated cleavage. Protein type: Autophagy; Protein kinase, Ser/Thr (non-receptor); Protein kinase, STE; Kinase, protein; EC 2.7.11.1; STE group; STE20 family; MST subfamily Cellular Component: nucleoplasm; cytoplasm; intracellular; nucleus Molecular Function: protein dimerization activity; identical protein binding; protein homodimerization activity; metal ion binding; magnesium ion binding; nucleotide binding; transcription factor binding; protein kinase activity; transferase activity; protein serine/threonine kinase activity; protein binding; transferase activity, transferring phosphorus-containing groups; kinase activity; ATP binding; receptor signaling protein serine/threonine kinase activity Biological Process: central nervous system development; positive regulation of protein binding; positive regulation of apoptosis; apoptosis; protein amino acid autophosphorylation; cell morphogenesis; negative regulation of organ growth; signal transduction; protein amino acid phosphorylation; patterning of blood vessels; keratinocyte differentiation; negative regulation of cell proliferation; peptidyl-serine phosphorylation; response to stress; positive regulation of fat cell differentiation; neural tube formation; phosphorylation
Research Articles on STK4	**1.** Mst1/2 regulate placental development by control of trophoblast cell differentiation and labyrinthine vasculature at midgestation and Mst1/2 control labyrinth morphogenesis in trophoblast- and fetal endothelial-dependent manners.

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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/stk4-mouse-elisa-kits/mst1/824922