

# Mouse Microtubule-associated serine/threonine-protein kinase 1 (MAST1) ELISA Kit

Catalog No: #EK9888

Package Size: #EK9888-1 48T #EK9888-2 96T

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## Description

Product Name	Mouse Microtubule-associated serine/threonine-protein kinase 1 (MAST1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	KIAA0973; SAST; SAST170; syntrophin associated serine/threonine kinase
Accession No.	Q9R1L5
Uniprot	Q9R1L5
GeneID	56527;
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate MAST1 in samples. An antibody specific for MAST1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAST1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAST1 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 MAST1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**MAST1 shares significant similarity with mouse Mast205 (MAST2). RT-PCR ELISA detected high expression in adult brain, spinal cord, and testis, in fetal brain, and in all specific adult brain regions examined. Expression was moderate in ovary, kidney, and fetal liver, low in pancreas, and very low or undetectable in all other tissues examined.

PCR analysis of rat tissues showed that, like Sast170, Sast124 was expressed exclusively in brain. Immunohistochemical analysis detected strong Sast124 staining in neurons of the subventricular zone and granule cells of the olfactory bulb, islands of Calleja, hippocampal dentate gyrus, and cerebellum. Sast124 localized in nuclei of neurons, in glia-like cell bodies in the corpus callosum, and in fiber bundles in the spinal trigeminal and solitary tracts.

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Note: This product is for in vitro research use only