Human Microtubule-associated serine/threonine-protein kinase 3 (MAST3) ELISA Kit

Catalog No: #EK9884

Package Size: #EK9884-1 48T #EK9884-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Microtubule-associated serine/threonine-protein kinase 3 (MAST3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KIAA0561;
Accession No.	O60307
Uniprot	O60307
GeneID	23031;
Storage	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. 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).

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 MAST3 in samples. An antibody specific for MAST3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAST3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAST3 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 MAST3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:By sequencing clones obtained from a size-fractionated brain cDNA library, Nagase et al. (1998) cloned MAST3, which they designated KIAA0561. The transcript contains repetitive elements in its 3-prime UTR, and the deduced 1,308-amino acid protein shares significant similarity with mouse Mast205 (MAST2) and human MAST4. RT-PCR detected variable MAST3 expression in all tissues examined, with highest levels in kidney, brain, and small intestine.Valiente et al. (2005) showed that the C-terminal tail of human PTEN bound to the PDZ domains of rat Magi2, Magi3, and Dlg (DLG1), mouse Sast (MAST1) and Mast205, and human MAST3. Interaction of PTEN with Magi2 increased PTEN protein stability, and interaction of PTEN with the MAST kinases facilitated phosphorylation of PTEN by these kinases.

Note: This product is for in vitro research use only