

Mouse Microtubule-associated protein 2 (MAP2) ELISA Kit

Catalog No: #EK9928

Package Size: #EK9928-1 48T #EK9928-2 96T

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Description

Product Name	Mouse Microtubule-associated protein 2 (MAP2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	DKFZp686I2148; MAP2A; MAP2B; MAP2C; OTTHUMP00000163916
Accession No.	P20357
Uniprot	P20357
GeneID	17756;
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:0.156-10 ng/mL

Sensitivity:0.055 ng/mL

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 MAP2 in samples. An antibody specific for MAP2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAP2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAP2 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 MAP2 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Microtubule-associated protein 2 is a protein that belongs to the microtubule-associated protein family. The proteins of this family are thought to be involved in microtubule assembly, which is an essential step in neurogenesis.MAP1 serves to stabilize microtubules (MT) growth by crosslinking MT with intermediate filaments and other MT. The products of similar genes in rat and mouse are neuron-specific cytoskeletal proteins that are enriched in dendrites, implicating a role in determining and stabilizing dentritic shape during neuron development. A number of alternatively spliced variants encoding distinct isoforms have been described.

Note: This product is for in vitro research use only