

Mouse Microtubule-associated protein RP/EB family member 3 (MAPRE3) ELISA Kit

Catalog No: #EK9895

Package Size: #EK9895-1 48T #EK9895-2 96T

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Description

Product Name	Mouse Microtubule-associated protein RP/EB family member 3 (MAPRE3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	EB3; EBF3; EBF3-S; RP3; APC binding protein
Accession No.	Q6PER3
Uniprot	Q6PER3
GeneID	100732;
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 μ L

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 MAPRE3 in samples. An antibody specific for MAPRE3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAPRE3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAPRE3 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 MAPRE3 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:MAPRE3 is a member of the RP/EB family of genes. The protein localizes to the cytoplasmic microtubule network and binds APCL, a homolog of the adenomatous polyposis coli tumor suppressor gene.

The predicted 282-amino acid protein is 54% identical to MAPRE1. Northern blot analysis revealed expression of a 2.2-kb transcript predominantly in brain and muscle. GST pull-down analysis determined that a homologous region in the C termini of APC and APCL binds to MAPRE3.

Immunofluorescence and confocal microscopy demonstrated that MAPRE3 is localized in the microtubule network and colocalizes with APCL in the perinucleus and microtubule network.

Note: This product is for in vitro research use only