

Mouse Microtubule-associated protein RP/EB family member 1 (MAPRE1) ELISA Kit

Catalog No: #EK9902

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Package Size: #EK9902-1 48T #EK9902-2 96T

Description

Product Name	Mouse Microtubule-associated protein RP/EB family member 1 (MAPRE1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	EB1; MGC117374; MGC129946; adenomatous polyposis coli-binding protein EB1
Accession No.	Q61166
Uniprot	Q61166
GeneID	13589;
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 MAPRE1 in samples. An antibody specific for MAPRE1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAPRE1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAPRE1 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 MAPRE1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:MAPRE1 is a regulator of microtubule dynamics that localizes at both the growing plus ends of microtubules and the centrosome. It is involved in a variety of cellular processes, including establishment and maintenance of cell polarity, search and capture of chromosomes during mitosis, and positioning of the mitotic spindle during asymmetric cell division.

This microtubule localization was abolished in the presence of the microtubule-destabilizing drug nocodazole; upon drug removal, the microtubule distribution of EB1 was recovered and EB1 fluorescence concentrated at the microtubule-organizing center. These results suggested that EB1 is associated with the microtubule network and may be involved in microtubule polymerization and spindle function.

Note: This product is for in vitro research use only