Mouse Microtubule-associated protein RP/EB family member 2 (MAPRE2) ELISA Kit

Catalog No: #EK9897

Package Size: #EK9897-1 48T #EK9897-2 96T

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

Description

Product Name	Mouse Microtubule-associated protein RP/EB family member 2 (MAPRE2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	EB1; EB2; RP1; APC-binding protein EB1|T-cell activation protein; EB1 family
Accession No.	Q8R001
Uniprot	Q8R001
GeneID	212307;
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 MAPRE2 in samples. An antibody specific for MAPRE2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAPRE2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAPRE2 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 MAPRE2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:MAPRE2 shares significant homology to the adenomatous polyposis coli (APC) protein-binding EB1 gene family. The function of this protein is unknown; however, its homology suggests involvement in tumorigenesis of colorectal cancers and proliferative control of normal cells. This gene may belong to the intermediate/early gene family, involved in the signal transduction cascade downstream of the TCR.

The deduced 327-amino acid protein has significant homology with EB1 family proteins. Northern blot analysis detected a 2.6-kb transcript in T cells activated by 2 signals (i.e., cell surface antigen(s) and/or cytokine) and also in lymphocyte tumor cell lines. Immunoprecipitation analysis indicated that RP1 associates with full-length but not C terminus-deleted APC.

Note: This product is for in vitro research use only