Microtubule Associated Protein Rp/Eb Family, Member 1 (MAPRE1) ELISA Kit for Sheep

PRODUCT OVERVIEW

Product Name	Microtubule Associated Protein RP/EB Family, Member 1 (MAPRE1), ELISA Kit
Full Product Name	Sheep Microtubule Associated Protein RP/EB Family, Member 1 ELISA Kit
Product Gene Name	MAPRE1 elisa kit
Species Reactivity	Sheep
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	37,031 Da
OMIM	605789
3D Structure	ModBase 3D Structure for Q15555
Related Product Information for MAPRE1 elisa kit	MBS060740 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Microtubule Associated Protein RP/EB Family, Member 1 (MAPRE1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MAPRE1. The ELISA analytical biochemical technique of the MBS060740 kit is based on MAPRE1 antibody-MAPRE1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MAPRE1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MAPRE1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of MAPRE1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAPRE1. It may not necessarily be applicable to this product.

NCBI GI #	10346135
NCBI GeneID	10982
NCBI Accession #	NP_055083.1
UniProt Primary Accession #	Q15555
UniProt Secondary Accession #	Q9UQ33; B2RE21; B3KR39; B7Z2L3; E9PHR3; F5H1V8
UniProt Related Accession #	Q15555
GenBank Nucleotide #	NM_014268.3
NCBI Official Full Name	microtubule-associated protein RP/EB family member 2 isoform 1
NCBI Official Synonym Full Names	microtubule-associated protein, RP/EB family, member 2
NCBI Official Symbol	MAPRE2
NCBI Official Synonym Symbols	EB1; EB2; RP1
UniProt Protein Name	Microtubule-associated protein RP/EB family member 2
UniProt Synonym Protein Names	APC-binding protein EB2; End-binding protein 2

Protein Family	Microtubule-associated protein RP/EB family
UniProt Gene Name	MAPRE2
UniProt Synonym Gene Names	RP1; EB2
UniProt Entry Name	MARE2_HUMAN
NCBI Protein Information	microtubule-associated protein RP/EB family member 2; end-binding protein 2; APC-binding protein EB1; APC-binding protein EB2; T-cell activation protein, EB1 family
NCBI Summary for MAPRE1	The protein encoded by this gene shares significant homology to the adenomatous polyposis coli (APC) protein-binding EB1 gene family. This protein is a microtubule-associated protein that is necessary for spindle symmetry during mitosis. It is thought to play a role in the tumorigenesis of colorectal cancers and the proliferative control of normal cells. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]
UniProt Comments for MAPRE1	RP1: shares significant homology to the adenomatous polyposis coli (APC) protein-binding EB1 gene family. Its function 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. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 18q12.1 Cellular Component: microtubule cytoskeleton; cytoplasm Molecular Function: microtubule binding Biological Process: mitosis; cell proliferation; cell division; signal transduction
Research Articles on MAPRE1	**1.** EB2 is evidently important for initial microtubule reorganisation during epithelial polarisation, whereas its downregulation facilitates EB1 and ACF7 microtubule lattice association, microtubule-actin filament co-alignment and bundle formation.
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