MAPRE2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MAPRE2, Polyclonal Antibody
Full Product Name	MAPRE2 Conjugated Antibody
Product Gene Name	anti-MAPRE2 antibody
Product Synonym Names	EB1; EB2; RP1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total MAPRE2 antibody.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	37,031 Da
OMIM	605789
3D Structure	ModBase 3D Structure for Q15555
Immunogen	Recombinant protein of human MAPRE2.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-MAPRE2 antibody	Most Applications
Application Notes for anti-MAPRE2 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-MAPRE2 antibody	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.
Other Notes	Small volumes of anti-MAPRE2 antibody 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.
Searchable Terms for MAPRE2 purchase	MBS9449127 is an antibody targeting MAPRE2. Also known as MAPRE2 Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAPRE2. 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
UniProt Comments for MAPRE2	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: cell proliferation; mitosis; cell division; signal transduction
Research Articles on MAPRE2	**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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