MAPRE2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MAPRE2, Polyclonal Antibody
Full Product Name	MAPRE2 Antibody, Biotin conjugated
Product Gene Name	anti-MAPRE2 antibody
Product Synonym Names	Microtubule-associated protein RP/EB family member 2; APC-binding protein EB2; End-binding protein 2; EB2; MAPRE2; RP1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: MAPRE2 (MBS7052809) Biotin Conjugated Antibody: MAPRE2 (MBS7052812)
Molecular Weight	30,691 Da
OMIM	X94232 mRNA
3D Structure	ModBase 3D Structure for Q15555
Immunogen	Recombinant Human Microtubule-associated protein RP/EB family member 2 protein (159-240AA)
Conjugation	Biotin
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MAPRE2 antibody	ELISA (EIA)
Related Product Information for anti-MAPRE2 antibody	May be involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes. May play a role in cell migration (By similarity).
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	MBS7052812 is an antibody targeting MAPRE2. Also known as MAPRE2 Antibody, Biotin conjugated. Reactive in Human. 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 #	219842325

NCBI GeneID	10982
NCBI Accession #	NP_001137298.1
UniProt Primary Accession #	Q15555
UniProt Secondary Accession #	Q9UQ33; B2RE21; B3KR39; B4DJV4; B7Z2L3; E9PHR3; F5H1V8; G5E9I6
UniProt Related Accession #	Q15555
GenBank Nucleotide #	NM_001143826.2
NCBI Official Full Name	microtubule-associated protein RP/EB family member 2 isoform 2
NCBI Official Synonym Full Names	microtubule associated protein RP/EB family member 2
NCBI Official Symbol	MAPRE2
NCBI Official Synonym Symbols	EB1; EB2; RP1; CSCSC2
UniProt Protein Name	Microtubule-associated protein RP/EB family member 2
UniProt Synonym Protein Names	APC-binding protein EB2; End-binding protein 2; EB2
Protein Family	Microtubule-associated protein RP/EB family
UniProt Gene Name	MAPRE2
UniProt Synonym Gene Names	RP1; EB2
NCBI Protein Information	microtubule-associated protein RP/EB family member 2
NCBI Summary for MAPRE2	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 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-q12.2 Cellular Component: cytoplasm; microtubule cytoskeleton Molecular Function: identical protein binding; protein binding Biological Process: cell proliferation; signal transduction Disease: Skin Creases, Congenital Symmetric Circumferential, 2
Research Articles on MAPRE2	**1.** Aurora B and CDK1 temporally regulate the binding affinity of EB2 for microtubules, thereby ensuring kinetochore microtubule dynamics, proper mitotic progression and genome stability.
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