

Recombinant Human MAPRE1, His-tagged

Cat. No. MAPRE1-3376H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAPRE1 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 32.2 kDa (288aa).
Species	Human
Source	E.coli
Description	MAPRE1, also known as EB1, belongs to the intermediate/early gene family. This protein first identified by its binding to the APC protein which is often mutated in familial and sporadic forms of colorectal cancer. It localizes to microtubules, especially the growing ends, in interphase cells. During mitosis, the protein is associated with the centrosomes and spindle microtubules. MAPRE1 is involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 2mM DTT, 0.1M NaCl.
Purity	> 90% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAVNVYSTSV TSDNLSRHDM LAWINESLQL NLTKIEQLCS GAAYCQFMDM LFPGSIALKK VKFQAKLEHE YIQNFKILQA

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GFKRMGVDKI IPVDKLVKGK FQDNFEFVQW FKKFFDANYD GKDYDPVAAR
 QGQETAVAPS LVAPALNPKK KPLTSSSAAP QRPISQTQRTA AAPKAGPGVV
 RKNPGVGNGD DEAAELMQQV NVLKLTVEDL EKERDFYFGK LRNIELICQE
 NEGENDPVLQ RIVDILYATD EGFVIPDEGG PQEEQEEY.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Cell Cycle, Mitotic; DNA Replication

GENE INFORMATION
Gene Name

[MAPRE1 microtubule-associated protein, RP/EB family, member 1 \[Homo sapiens \]](#)

Synonyms

microtubule-associated protein, RP/EB family, member 1; EB1; MGC117374; MGC129946; MAPRE1; microtubule-associated protein RP/EB family member 1; end-binding protein 1; APC-binding protein EB1; adenomatous polyposis coli-binding protein EB1; End-binding protein 1

Gene ID

[22919](#)

mRNA Refseq

[NM_012325](#)

Protein Refseq

[NP_036457](#)

MIM

[603108](#)

UniProt ID

[Q15691](#)

**Chromosome
Location**

20q11.1-q11.23

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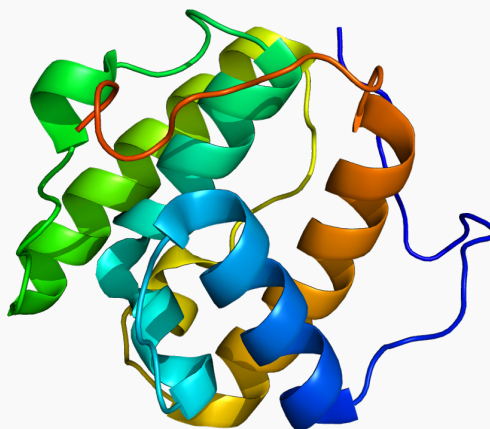
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Function

microtubule plus-end binding; protein C-terminus binding; protein binding

PDB rendering based
on 1pa7.



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