abcam

Product datasheet

Recombinant Human MAPRE1/EB1 protein ab182821

Description

Product name	Recombinant Human MAPRE1/EB1 protein
Purity	> 90 % SDS-PAGE. ab182821 was expressed in E.coli as inclusion bodies, refolded using a unique “temperature shift inclusion body refolding” technology and chromatographically purified.
Expression system	Escherichia coli
Accession	Q15691
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MASMTGGQQMGRGHHHHHHENLYFQGGEFAVNVYSTSV TSDNLSRHDMLA WINESLQLNLTKIEQLCSGAAYCQFMDMLFPGSIALKKVKF QAKLEHEYI QNFKILQAGFKRMGVDKIIPVDKLVKGKFQDNFEFVQWFK KFFDANYDGK DYDPVAARQGQETAVAPSLVAPALNKPKKPLTSSSAAPQ RPISTQRTAAA PKAGPGVVRKNPGVGNGDDEAAELMQQVNVLKLTVEDL EKERDFYFGKLR NIELICQENEGENDPVLQRIVDILYATDEGFVIPDEGGPQEE QEEY
Predicted molecular weight	33 kDa including tags
Amino acids	2 to 268
Additional sequence information	Constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal (NP_036457.1).

Specifications

Our **Abpromise guarantee** covers the use of **ab182821** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

Additional notes	This product was previously labelled as MAPRE1

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -80°C. pH: 8.00 Constituent: 0.32% Tris HCl Contains NaCl, EDTA, KCl, Arginine, DTT and Glycerol.

General Info

Function	May be involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes. May play a role in cell migration.
Tissue specificity	Ubiquitously expressed.
Sequence similarities	Belongs to the MAPRE family. Contains 1 CH (calponin-homology) domain. Contains 1 EB1 C-terminal domain.
Domain	Composed of two functionally independent domains. The N-terminal domain forms an hydrophobic cleft involved in microtubule binding and the C-terminal is involved in the formation of mutually exclusive complexes with APC and DCTN1.
Cellular localization	Cytoplasm > cytoskeleton. Cytoplasm > cytoskeleton > centrosome. Associated with the microtubule network at the growing distal tip of microtubules. Also enriched at the centrosome.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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