9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MAPRE2 Human

Microtubule-Associated Protein, RP/EB Family, Member 2 Human Recombinant RCP1320

Product Overview

Name	MAPRE2 Human

Description

Microtubule-Associated Protein, RP/EB Family, Member 2 Human Recombinant

Accession (Primary)	Q15555

Synonyms

Microtubule-associated protein RP/EB family member 2, APC-binding protein EB2, End-binding protein 2, EB2, MAPRE2, RP1, EB1.

Introduction

MAPRE2 (RP1 or EB2) is an evolutionarily conserved protein, which associates with the tips of growing microtubules, and regulates microtubule dynamics and their interactions with intracellular structures. The EB proteins regulate microtubule function through CLIP proteins. MAPRE2 shares noteworthy homology to the adenomatous polyposis coli (APC) protein-binding EB1 gene family. MAPRE2 is necessary for spindle symmetry during mitosis. MAPRE2 is believed to have a role in the tumorigenesis of colorectal cancers and the proliferative control of normal cells.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

MAPRE2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 85% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MPGPTQTLSP NGENNNDIIQ DNNGTIIPFR KHTVRGERSY SWGMAVNVYS TSITQETMSR HDIIAWVNDI VSLNYTKVEQ LCSGAAYCQF MDMLFPGCIS LKKVKFQAKL EHEYIHNFKL LQASFKRMNV DKVIPVEKLV KGRFQDNLDF IQWFKKFYDA NYDGKEYDPV EARQGQDAIP PPDPGEQIFN

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LPKKSHHANS PTAGAAKSSP AAKPGSTPSR PSSAKRASSS GSASKSDKDL ETQVIQLNEQ VHSLKLALEG VEKERDFYFG KLREIELLCQ EHGQENDDLV QRLMDILYAS EEHEGHTEEP EAEEQAHEQQ PPQQEEY.

Precautions

MAPRE2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q15555)