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MAPRE2 Human

Catalog #:PRPS-939

For research use only.

Description:MAPRE2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 347 amino acids (1-327 a.a.) and having a molecular mass of 39.2kDa.MAPRE2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MPGPTQTLSP NGENNNDIIQ DNNGTIIPFR KHTVRGERSY SWGMAVNVYS TSITQETMSR HDIIAWVNDI VSLNYTKVEQ LCSGAAYCQF MDMLFPGCIS LKKVKFQAKL EHEYIHNFKL LQASFKRMNV DKVIPVEKLV KGRFQDNLDF IQWFKKFYDA NYDGKEYDPV EARQGQDAIP PPDPGEQIFN LPKKSHHANS PTAGAAKSSP AA

Purity: Greater than 85% as determined by SDS-PAGE.

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.

Usage:
NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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 throµgh 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.

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