

## MAPRE1 Human

**Description:** MAPRE1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 288 amino acids (1-268 a.a.) and having a molecular mass of 32.2kDa. The MAPRE1 is purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-065

For research use only.

**Synonyms:** Microtubule-associated protein RP/EB family member 1, APC-binding protein EB1, End-binding protein 1, EB1, MAPRE1, MGC117374, MGC129946.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MAVNVYSTSV TSDNLSRHDM  
LAWINESLQL NLTKIEQLCS GAAYCQFMDM LFPGSIALKK VKFQAKLEHE YIQNFKILQA  
GFKRMGVDKI IPVDKLVKGG FQDNFEFVQW FKKFFDANYD GKDYDPVAAR QGQETAVAPS  
LVAPALNPKK KPLTSSSAAP QRPISTQRTA AAPKAGPGVV RKNPGVGNGD DEAAELMQQV  
NVLKLTVEDL EK

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

### Formulation:

The MAPRE1 solution (0.5 mg/ml) 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 2mM DTT and 0.1M NaCl.

### 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:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

MAPRE1 (EB1) is a member of the intermediate/early gene family. MAPRE1 was first identified by its binding to the APC protein, which is often mutated in familial and sporadic, forms of colorectal cancer. MAPRE1 localizes to microtubules, especially the growing ends, in interphase cells. During mitosis, MAPRE1 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.

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