

# KD-Validated Anti-MAPRE2 Mouse Monoclonal Antibody

Mouse monoclonal Antibody

Catalog # AGI2163

## Product Information

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| <b>Application</b>       | WB                                                                                                                                                                                                                                                        |
| <b>Primary Accession</b> | <a href="#">Q15555</a>                                                                                                                                                                                                                                    |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                                                                                                                                                         |
| <b>Clonality</b>         | Monoclonal                                                                                                                                                                                                                                                |
| <b>Isotype</b>           | Mouse IgG2a                                                                                                                                                                                                                                               |
| <b>Clone Names</b>       | 24GB13965                                                                                                                                                                                                                                                 |
| <b>Calculated MW</b>     | 37031                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>         | MAPRE2                                                                                                                                                                                                                                                    |
| <b>Aliases</b>           | MAPRE2; Microtubule Associated Protein RP/EB Family Member 2; RP1; EB2; EB1; Microtubule-Associated Protein RP/EB Family Member 2; APC-Binding Protein EB1; APC-Binding Protein EB2; End-Binding Protein 2; T-Cell Activation Protein, EB1 Family; CSCSC2 |
| <b>Immunogen</b>         | Recombinant protein of human MAPRE2                                                                                                                                                                                                                       |

## Additional Information

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| <b>Gene ID</b>     | 10982                                                                                                                  |
| <b>Other Names</b> | Microtubule-associated protein RP/EB family member 2, APC-binding protein EB2, End-binding protein 2, EB2, MAPRE2, RP1 |

## Protein Information

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| <b>Name</b>              | MAPRE2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>          | RP1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Function</b>          | Adapter protein that is involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes. Therefore, ensures mitotic progression and genome stability (PubMed: <a href="#">27030108</a> ). Acts as a central regulator of microtubule reorganization in apico-basal epithelial differentiation (By similarity). Plays a role during oocyte meiosis by regulating microtubule dynamics (By similarity). Participates in neurite growth by interacting with plexin B3/PLXNB3 and microtubule reorganization during apico-basal epithelial differentiation (PubMed: <a href="#">22373814</a> ). Also plays an essential role for cell migration and focal adhesion dynamics. Mechanistically, recruits HAX1 to microtubules in order to regulate focal adhesion dynamics (PubMed: <a href="#">26527684</a> ). |
| <b>Cellular Location</b> | Cytoplasm, cytoskeleton. Note=Associated with the microtubule network. Accumulates at the plus end of microtubules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Tissue Location**

Expressed in different tumor cell lines. Up- regulated in activated B- and T-lymphocytes

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.