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MAPRE2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14769a

Specification

MAPRE2 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q15555
Other Accession	Q7ZXP1, Q3B8Q0, Q8R001, Q5ZKK1, Q3SZP2, NP_001137299.1, NP_055083.1, NP_001137298.1
Reactivity	**Human**
Predicted	**Bovine, Chicken, Mouse, Rat, Xenopus**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**37031**
Antigen Region	**12-40**

MAPRE2 Antibody (N-term) - Additional Information

Gene ID 10982

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

Target/Specificity
This MAPRE2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 12-40 amino acids from the N-terminal region of human MAPRE2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MAPRE2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MAPRE2 Antibody (N-term) - Protein Information

Name MAPRE2

Synonyms RP1

Function 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:27030108). 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:22373814). 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:26527684).

Cellular Location
Cytoplasm, cytoskeleton. Note=Associated with the microtubule network. Accumulates at the plus end of microtubules

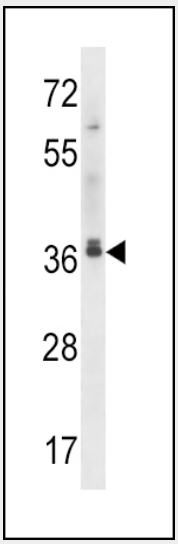
Tissue Location
Expressed in different tumor cell lines. Up- regulated in activated B- and T-lymphocytes

MAPRE2 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MAPRE2 Antibody (N-term) - Images



MAPRE2 Antibody (N-term) (Cat. #AP14769a) western blot analysis in CEM cell line lysates

(35ug/lane).This demonstrates the MAPRE2 antibody detected the MAPRE2 protein (arrow).

MAPRE2 Antibody (N-term) - Background

The protein encoded by this gene shares significant homology to the adenomatous polyposis coli (APC) protein-binding EB1 gene family. The function of this protein is unknown; however, its homology suggests involvement in tumorigenesis of colorectal cancers and proliferative control of normal cells. This gene may belong to the intermediate/early gene family, involved in the signal transduction cascade downstream of the TCR. Alternative splicing results in multiple transcript variants. [provided by RefSeq].

MAPRE2 Antibody (N-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
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Zhu, Z.C., et al. J. Biol. Chem. 284(47):32651-32661(2009)
Abiatari, I., et al. Int. J. Oncol. 35(5):1111-1116(2009)
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