

MAPRE1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP6770c**Specification****MAPRE1 Antibody (Center) Blocking Peptide -
Product Information**Primary Accession [Q15691](#)**MAPRE1 Antibody (Center) Blocking Peptide -
Additional Information****Gene ID** 22919**Other Names**Microtubule-associated protein RP/EB family
member 1, APC-binding protein EB1,
End-binding protein 1, EB1, MAPRE1**Target/Specificity**

The synthetic peptide sequence used to
generate the antibody [AP6770c](/products/AP6770c)
was selected from the Center region of
human MAPRE1. A 10 to 100 fold molar
excess to antibody is recommended.
Precise conditions should be optimized for a
particular assay.

FormatPeptides are lyophilized in a solid powder
format. Peptides can be reconstituted in
solution using the appropriate buffer as
needed.**Storage**Maintain refrigerated at 2-8°C for up to 6
months. For long term storage store at
-20°C.**Precautions**This product is for research use only. Not
for use in diagnostic or therapeutic
procedures.**MAPRE1 Antibody (Center) Blocking Peptide -
Protein Information****Name** MAPRE1**MAPRE1 Antibody (Center) Blocking
Peptide - Background**

MAPRE1 was first identified by its binding to
the APC protein which is often mutated in
familial and sporadic forms of colorectal
cancer. This protein localizes to microtubules,
especially the growing ends, in interphase
cells. During mitosis, the protein is associated
with the centrosomes and spindle
microtubules. The protein also associates with
components of the dynactin complex and the
intermediate chain of cytoplasmic dynein.
Because of these associations, it is thought
that this protein is involved in the regulation of
microtubule structures and chromosome
stability.

**MAPRE1 Antibody (Center) Blocking
Peptide - References**Komarova, Y., J. Cell Biol. 184 (5), 691-706
(2009)

Function

Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton (PubMed:12388762, PubMed:16109370, PubMed:19632184, PubMed:21646404, PubMed:28726242, PubMed:28814570). Promotes cytoplasmic microtubule nucleation and elongation (PubMed:12388762, PubMed:16109370, PubMed:19632184, PubMed:21646404, PubMed:28726242, PubMed:28814570). May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes (PubMed:12388762). Also acts as a regulator of minus-end microtubule organization: interacts with the complex formed by AKAP9 and PDE4DIP, leading to recruit CAMSAP2 to the Golgi apparatus, thereby tethering non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement (PubMed:28814570). Promotes elongation of CAMSAP2-

decorated microtubule stretches on the minus-end of microtubules (PubMed:28814570). Acts as a regulator of autophagosome transport via interaction with CAMSAP2 (PubMed:28726242). May play a role in cell migration (By similarity).

Cellular Location

Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Golgi apparatus. Note=Associated with the microtubule growing distal tips (PubMed:28814570). Recruitment to the Golgi apparatus requires the presence of PDE4DIP isoform 13/MMG8/SMYLE (PubMed:25217626).

Tissue Location

Ubiquitously expressed.

MAPRE1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)