

MAP-EB3 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP6973c**Specification**

MAP-EB3 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9UPY8](#)**MAP-EB3 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 22924**Other Names**

Microtubule-associated protein RP/EB family member 3, EB1 protein family member 3, EBF3, End-binding protein 3, EB3, RP3, MAPRE3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6973c](/products/AP6973c) was selected from the Center region of human MAP-EB3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides 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.

MAP-EB3 Antibody (Center) Blocking Peptide - Protein Information**Name** MAPRE3**Function**

Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton (PubMed: [28814570](http://www.uniprot.org/citations/28814570), PubMed: [19255245](http://www.uniprot.org/citations/19255245)). Promotes microtubule growth (PubMed: [28814570](http://www.uniprot.org/citations/28814570), PubMed: [19255245](http://www.uniprot.org/citations/19255245)). May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes (PubMed: [28814570](http://www.uniprot.org/citations/28814570), PubMed: [19255245](http://www.uniprot.org/citations/19255245)). 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).

Cellular Location

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

Tissue Location

Predominantly expressed in brain and muscle.

MAP-EB3 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MAP-EB3 Antibody (Center) Blocking Peptide - Images**MAP-EB3 Antibody (Center) Blocking Peptide - Background**

MAP-EB3 may be involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes. It may play a role in cell migration.

MAP-EB3 Antibody (Center) Blocking Peptide - References

Yeh,T.Y., et.al., J. Cell. Sci. 118 (PT 15), 3431-3443 (2005)Mimori-Kiyosue,Y.,et.al., J. Cell Biol. 168 (1), 141-153 (2005)