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EB3 Antibody

Rabbit mAb
Catalog # AP91706

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	Q9UPY8
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	EB3; EBF3; MAPRE3; RP/EB Family; RP3;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	31982

Additional Information

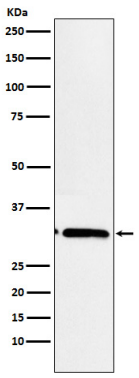
Dilution	WB 1:1000~1:5000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human EB3
Description	May be involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes. May play a role in cell migration.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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:19255245, PubMed:28814570). Promotes microtubule growth (PubMed:19255245, PubMed:28814570). May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes (PubMed:19255245, PubMed:28814570). 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.

Images



Western blot analysis of EB3 expression in Ratmuscle cell lysate.