

Rabbit MAPRE1 Polyclonal Antibody | anti-MAPRE1 antibody

MAPRE1 Antibody (N-term)

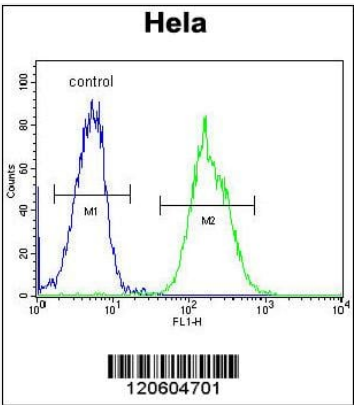
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287095	Rabbit	Human, mouse (Predicted Reactivity: Bovine, Chicken, Rat, Xenopus)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

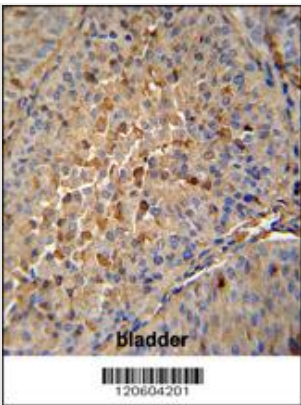
MAPRE1; Polyclonal Antibody; MAPRE1 Antibody (N-term); Microtubule-associated protein RP/EB family member 1; APC-binding protein EB1; End-binding protein 1; EB1; anti-MAPRE1 antibody

PRODUCT SPECIFICATIONS

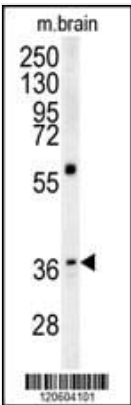
Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Bovine, Chicken, Rat, Xenopus)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MAPRE1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 44-71 amino acids from the N-terminal region of human MAPRE1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	44-71
Sequence Length	268
Applicable Applications for anti-MAPRE1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton (PubMed: , PubMed:16109370, PubMed: , PubMed:21646404, PubMed: , PubMed:28814570). Promotes cytoplasmic microtubule nucleation and elongation (PubMed: , PubMed:16109370, PubMed: , PubMed:21646404, PubMed: , PubMed:28814570). Maybe involved in spindle function by stabilizing microtubules and anchoring them at centrosomes (PubMed:). 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:). Promote selongation of CAMSAP2- decorated microtubule stretches on the minus-end of microtubules (PubMed:). Acts as a regulator of autophagosome transport via interaction with CAMSAP2 (PubMed:). 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.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
MAPRE1 Antibody (N-term) flow cytometric analysis of HeLa cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
MAPRE1 antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human bladder carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the MAPRE1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
MAPRE1 Antibody (N-term) western blot analysis in mouse brain tissue lysates (15ug/lane).This demonstrates the MAPRE1 antibody detected MAPRE1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-MAPRE1 antibody	The protein encoded by this gene 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. This gene is a member of the RP/EB family.
Product Categories/Family for anti-MAPRE1 antibody	Signal Transduction
References	Jaulin, F., et al. J. Cell Biol. 190(3):443-460(2010) Olson, J.E., et al. Breast Cancer Res. Treat. (2010) In press : De Groot, C.O., et al. J. Biol. Chem. 285(8):5802-5814(2010) Jiang, K., et al. EMBO Rep. 10(8):857-865(2009) Honnappa, S., et al. Cell 138(2):366-376(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	6912494
NCBI GeneID	22919
NCBI Accession #	NP_036457.1
NCBI GenBank Nucleotide #	NM_012325.2
UniProt Accession #	Q15691; Q3KQS8; B2R6I7; E1P5M8
Molecular Weight	29999
NCBI Official Full Name	microtubule-associated protein RP/EB family member 1
NCBI Official Synonym Full Names	microtubule-associated protein, RP/EB family, member 1
NCBI Official Symbol	MAPRE1
NCBI Official Synonym Symbols	EB1
NCBI Protein Information	microtubule-associated protein RP/EB family member 1
UniProt Protein Name	Microtubule-associated protein RP/EB family member 1
UniProt Gene Name	MAPRE1
UniProt Synonym Gene Names	EB1
UniProt Entry Name	MARE1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/mapre1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/287095>