

Rabbit MAPRE1 Polyclonal Antibody | anti-MAPRE1 antibody

MAPRE1 Antibody

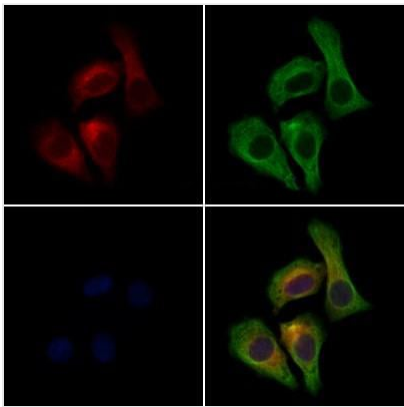
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329089	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Rabbit(100%), Dog(100%)	ELISA

PRODUCT SYNONYMS

MAPRE1; Polyclonal Antibody; MAPRE1 Antibody; 5530600P05Rik; Adenomatous polyposis coli binding protein EB 1; Adenomatous polyposis coli binding protein EB1; AI462499; AI504412; APC binding protein EB 1; APC binding protein EB1; APC-binding protein EB1; AW260097; BIM1p; D2Ert459e; EB 1; EB1; End binding protein 1; End-binding protein 1; fa01e12; fc23e11; fi33c06; MAPRE 1; Mapre3; MARE1_HUMAN; MGC117374; MGC129946; MGC52508; Microtubule associated protein RP/EB family member 1; Microtubule-associated protein RP/EB family member 1; wu:fa01e12; wu:fc23e11; wu:fi33c06; zgc:55428; zgc:77807; zgc:85755; anti-MAPRE1 antibody

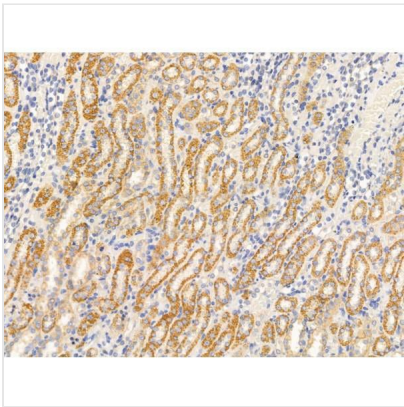
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Rabbit(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	MAPRE1 Antibody detects endogenous levels of total MAPRE1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	268
Applicable Applications for anti-MAPRE1 antibody	ELISA
Immunogen	A synthesized peptide derived from human MAPRE1, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



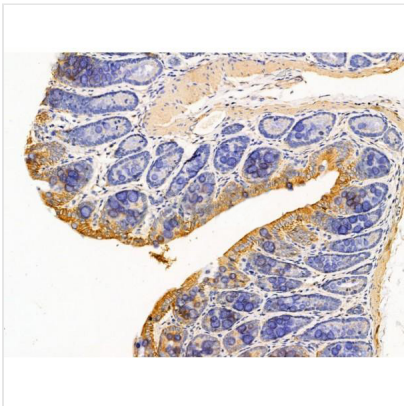
IF (Immunofluorescence)

AAA329089 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329089 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



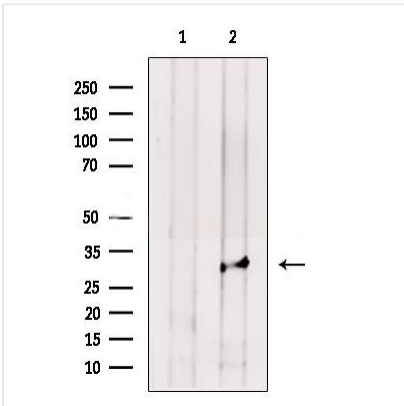
IHC (Immunohistochemistry)

AAA329089 at 1/100 staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA329089 at 1/100 staining Rat colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from Rat brain, using MAPRE1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MAPRE1 antibody	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). Subcellular 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 Specificity: Ubiquitously expressed. Subunit Structure: Homodimer (PubMed:15616574). Heterodimer with MAPRE3 (PubMed:19255245). Interacts with DCTN1, DCTN2, TERF1 and dynein intermediate chain (PubMed:10226031, PubMed:11943150, PubMed:12388762, PubMed:14514668, PubMed:23874158, PubMed:16109370, PubMed:16949363). Interaction with DIAPH1 and DIAPH2 (By similarity). Interacts with APC (via C-terminal domain), CLASP2, DST, KIF2C and STIM1; probably required for their targeting to the growing microtubule plus ends (PubMed:7606712, PubMed:12388762, PubMed:14514668, PubMed:15631994, PubMed:19543227, PubMed:15616574, PubMed:19632184). Interacts with MTUS2; interaction is direct and probably targets MTUS2 to microtubules (PubMed:19543227). Interacts with APC2 (PubMed:10644998). Interacts with CLASP1 (PubMed:15631994). Interacts with CDK5RAP2 (PubMed:19553473). Interacts with MACF1 (By similarity). Interacts with RABL2/RABL2A; binds preferentially to GTP-bound RABL2 (By similarity). Interacts with KCNAB2 (By similarity). Interacts (via C-terminus) with CLIP1 (PubMed:17563362, PubMed:21646404). Interacts with SLAIN2 and SLAIN1 (PubMed:21646404). Interacts with KIF18B; this interaction is required for efficient accumulation of KIF18B at microtubule plus ends (PubMed:21820309). Interacts with MISP (PubMed:23509069). Interacts with KNSTRN (PubMed:23035123). Interacts with NCKAP5L (PubMed:26485573). Interacts with CAMSAP2 (PubMed:28726242). Interacts with PDE4DIP isoform 13/MMG8/SMYLE; this interaction is required for its recruitment to the Golgi apparatus (PubMed:25217626, PubMed:28814570). Forms a pericentrosomal complex with AKAP9, CDK5RAP2 and PDE4DIP isoform 13/MMG8/SMYLE; within this complex, MAPRE1 binding to CDK5RAP2 may be mediated by PDE4DIP (PubMed:29162697). Interacts with AKNA (By similarity). Interacts with GAS2L1, GAS2L2, and GAS2L3 (PubMed:24706950). Similarity: Composed of two functionally independent domains. The N-terminal domain forms a hydrophobic cleft involved in microtubule binding and the C-terminal is involved in the formation of mutually exclusive complexes with APC and DCTN1.Belongs to the MAPRE family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20138589
NCBI GeneID	22919
UniProt Accession #	Q15691
Molecular Weight	Observed Molecular Weight: (Observed)29kD. Predicted Molecular Weight: (Calculated)30kDa.
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/mapre1-antibody-elisa/329089>