

Rabbit EB3 Polyclonal Antibody | anti-MAPRE3 antibody

EB3 Antibody

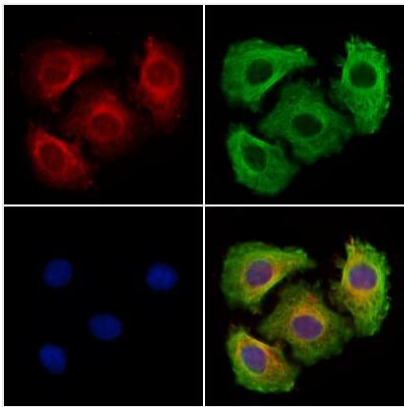
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329176	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Sheep(100%), Rabbit(100%), Dog(100%)	ELISA

PRODUCT SYNONYMS

EB3; Polyclonal Antibody; EB3 Antibody; APC binding protein; EB 3; EB1 protein family member 3; EBF 3; EBF3; EBF3 S; End binding protein 3; End-binding protein 3; MAPRE 3; MAPRE3; MARE3_HUMAN; Member 3; Microtubule Associated Protein; Microtubule associated protein RP/EB family member 3; Microtubule-associated protein RP/EB family member 3; OTTHUMP00000200910; RP 3; RP/EB Family; RP3; anti-MAPRE3 antibody

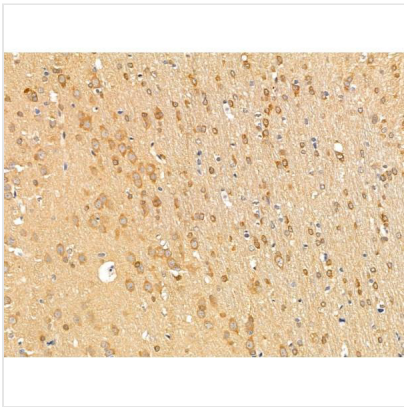
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Sheep(100%), Rabbit(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	EB3 Antibody detects endogenous levels of total EB3.
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	281
Applicable Applications for anti-MAPRE3 antibody	ELISA
Immunogen	A synthesized peptide derived from human EB3, 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.



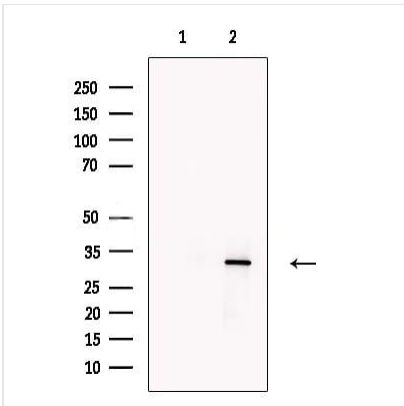
IF (Immunofluorescence)

AAA329176 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(AAA329176 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)

AAA329176 at 1/100 staining Rat brain 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 Mouse brain, using EB3 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MAPRE3 antibody	Function: Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton. Promotes microtubule growth. May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes. 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). May play a role in cell migration (By similarity). Subcellular Location: Cytoplasm>Cytoskeleton. Note: Associated with the microtubule network. Detected at the plus end of microtubules. Tissue Specificity: Predominantly expressed in brain and muscle. Subunit Structure: Interacts with APC2 (PubMed:10644998). Homodimer (PubMed:19255245). Heterodimer with MAPRE1 (PubMed:19255245). Interacts with DCTN1 and SRCIN1 (PubMed:14514668, PubMed:19146815). Binds to the C-terminal domain of APC (PubMed:14514668). Binds monomeric and polymerized tubulin (PubMed:10188731). Interacts (via C-terminus) with CLIP1 (PubMed:17563362). Interacts with SLAIN2 and SLAIN1 (PubMed:21646404). Interacts with AKAP9 (PubMed:28814570). Interacts with PDE4DIP (PubMed:28814570). Interacts with PDE4DIP isoform 13/MMG8/SMYLE; this interaction is required for its recruitment to the Golgi apparatus (PubMed:25217626). 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 #	10800412
NCBI GeneID	22924
NCBI Accession #	NP_036458.2
NCBI GenBank Nucleotide #	NP_036458.2
UniProt Accession #	Q9UPY8
Molecular Weight	Observed Molecular Weight: (Observed)31kD. Predicted Molecular Weight: (Calculated)32kDa.
NCBI Official Full Name	microtubule-associated protein RP/EB family member 3
NCBI Official Synonym Full Names	microtubule associated protein RP/EB family member 3
NCBI Official Symbol	MAPRE3
NCBI Official Synonym Symbols	EB3; RP3; EBF3; EBF3-S
NCBI Protein Information	microtubule-associated protein RP/EB family member 3
UniProt Protein Name	Microtubule-associated protein RP/EB family member 3
UniProt Gene Name	MAPRE3
UniProt Synonym Gene Names	EBF3; EB3
UniProt Entry Name	MARE3_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.