

Rabbit EB1/MAPRE1 Polyclonal Antibody | anti-EB1/MAPRE1 antibody

Anti-EB1/MAPRE1 Antibody Picoband

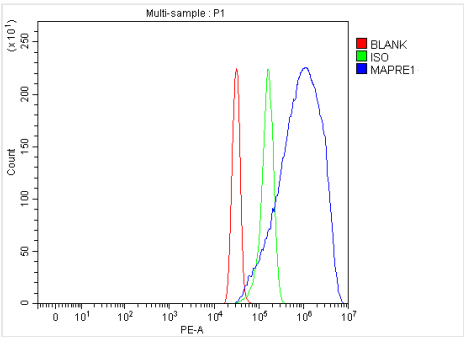
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127098	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

EB1/MAPRE1; Polyclonal Antibody; Anti-EB1/MAPRE1 Antibody Picoband; deleted in azoospermia like; Deleted in azoospermia-like; DAZ homolog; DAZ-like autosomal; Deleted in azoospermia-like 1; SPGY-like-autosomal; DAZL; DAZH; DAZL1; DAZLA; SPGYLA; anti-EB1/MAPRE1 antibody

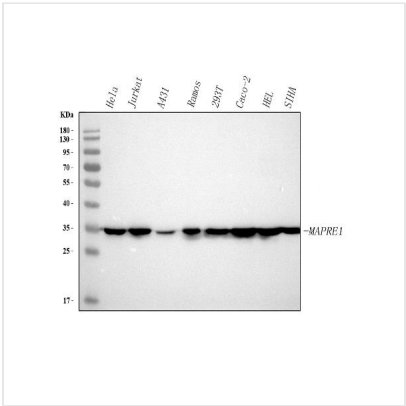
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-EB1/MAPRE1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human EB1/MAPRE1 recombinant protein (Position: A145-Y268).
Subcellular Localization	Nucleus, Cytoplasm
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	RNA-binding protein, which is essential for gametogenesis in both males and females. Plays a central role during spermatogenesis. Acts by binding to the 3'-UTR of mRNA, specifically recognizing GUU triplets, and thereby regulating the translation of key transcripts.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



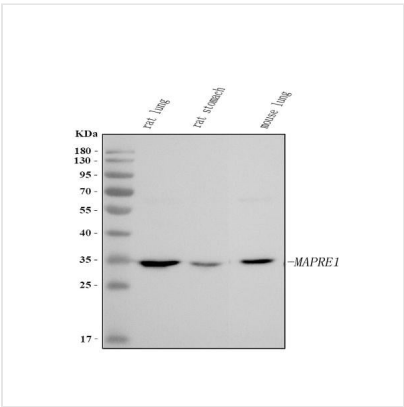
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of SiHa cells using anti-MAPRE1 antibody (AAA127098).Overlay histogram showing SiHa cells stained with AAA127098 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MAPRE1 Antibody (AAA127098, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of EB1/MAPRE1 using anti-EB1/MAPRE1 antibody (AAA127098).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HeLa whole cell lysates,Lane 2: human Jurkat whole cell lysates,Lane 3: human A431 whole cell lysates,Lane 4: human Ramos whole cell lysates,Lane 5: human 293T whole cell lysates,Lane 6: human Caco-2 whole cell lysates,Lane 7: human HEL whole cell lysates,Lane 8: human SiHa whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-EB1/MAPRE1 antigen affinity purified polyclonal antibody (#AAA127098) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for EB1/MAPRE1 at approximately 35 kDa. The expected band size for EB1/MAPRE1 is at 30 kDa.



WB (Western Blot)

Figure 2. Western blot analysis of EB1/MAPRE1 using anti-EB1/MAPRE1 antibody (AAA127098).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: rat lung tissue lysates,Lane 2: rat stomach tissue lysates,Lane 3: mouse lung tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-EB1/MAPRE1 antigen affinity purified polyclonal antibody (#AAA127098) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for EB1/MAPRE1 at approximately 35 kDa. The expected band size for EB1/MAPRE1 is at 30 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-EB1/MAPRE1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-EB1/MAPRE1 antibody	Primary Antibodies; Angiogenesis; Cancer; Cardiovascular; Cytokines; Immunology; Innate Immunity; Interleukins; Invasion/Microenvironment
References	1. Berrueta, L., Kraeft, S.-K., Tirnauer, J. S., Schuyler, S. C., Chen, L. B., Hill, D. E., Pellman, D., Bierer, B. E. The adenomatous polyposis coli-binding protein EB1 is associated with cytoplasmic and spindle microtubules. Proc. Nat. Acad. Sci. 95: 10596-10601, 1998. 2. Berrueta, L., Tirnauer, J. S., Schuyler, S. C., Pellman, D., Bierer, B. E. The APC-associated protein EB1 associates with components of the dynactin complex and cytoplasmic dynein intermediate chain. Curr. Biol. 9: 425-428, 1999.3. Jiang, K., Wang, J., Liu, J., Ward, T., Wordeman, L., Davidson, A., Wang, F, Yao, X. TIP150 interacts with and targets MCAK at the microtubule plus ends. EMBO Rep. 10: 857-865, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20138589
NCBI GeneID	22919
UniProt Accession #	Q15691; Q3KQS8; B2R6I7; E1P5M8
Molecular Weight	268
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; end-binding protein 1; APC-binding protein EB1; adenomatous polyposis coli-binding protein EB1
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.