

## Rabbit EB3/MAPRE3 Polyclonal Antibody | anti-EB3/MAPRE3 antibody

Anti-EB3/MAPRE3 Antibody Picoband

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                          |
|-----------|--------|-------------------|-------------------------------------------------------|
| AAA127328 | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Western Blot |

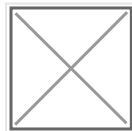
### PRODUCT SYNONYMS

EB3/MAPRE3; Polyclonal Antibody; Anti-EB3/MAPRE3 Antibody Picoband; anti-EB3/MAPRE3 antibody

### PRODUCT SPECIFICATIONS

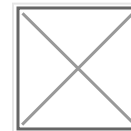
|                                                      |                                                                                                                                                                                                                       |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | Rabbit                                                                                                                                                                                                                |
| Reactivity                                           | Human, Mouse, Rat                                                                                                                                                                                                     |
| Clonality                                            | Polyclonal                                                                                                                                                                                                            |
| Purity/Purification                                  | Immunogen affinity purified.                                                                                                                                                                                          |
| Form/Format                                          | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                |
| Applicable Applications for anti-EB3/MAPRE3 antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                   |
| Immunogen                                            | E coli-derived human EB3/MAPRE3 recombinant protein (Position: D143-D268). Human MAPRE3 shares 98.4% amino acid (aa) sequence identity with both mouse and rat MAPRE3.                                                |
| Reconstitution                                       | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| 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. |

### IMAGES



#### FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U251 cells using anti-EB3/MAPRE3 antibody (AAA127328).Overlay histogram showing U251 cells stained with AAA127328 (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-EB3/MAPRE3 Antibody (AAA127328, 1ug/1x10<sup>6</sup> 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/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



#### WB (Western Blot)

Figure 1. Western blot analysis of EB3/MAPRE3 using anti-EB3/MAPRE3 antibody (AAA127328).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 K562 whole cell lysates,Lane 2: human U251 whole cell lysates,Lane 3: human 293T whole cell lysates,Lane 4: human SH-SY5Y whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: rat testis tissue lysates,Lane 7: mouse brain tissue lysates,Lane 8: mouse testis 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-EB3/MAPRE3 antigen affinity purified polyclonal antibody (#AAA127328) at 0.25ug/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 EB3/MAPRE3 at approximately 35 kDa. The expected band size for EB3/MAPRE3 is at 32 kDa.

ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-EB3/MAPRE3 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-EB3/MAPRE3 antibody   | Primary Antibodies                                                                                                                                                                                                                                                                                                                                         |
| References                                               | 1. Nakagawa, H., Koyama, K., Murata, Y., Morito, M., Akiyama, T., Nakamura, Y. EB3, a novel member of the EB1 family preferentially expressed in the central nervous system, binds to a CNS-specific APC homologue. Oncogene 19: 210-216, 2000. 2. Su, L.-K., Qi, Y. Characterization of human MAPRE genes and their proteins. Genomics 71: 142-149, 2001. |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 10800412                                                                                                                      |
| NCBI GeneID                      | 22924                                                                                                                         |
| NCBI Accession #                 | NP_036458.2                                                                                                                   |
| NCBI GenBank Nucleotide #        | NM_012326.3                                                                                                                   |
| UniProt Accession #              | Q9UPY8; O00265; Q6FHB0; Q6FI15; Q9BZP7; Q9BZP8; B7WPK5                                                                        |
| Molecular Weight                 | 30,380 Da                                                                                                                     |
| 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; APC binding protein; EB1 protein family member 3; end-binding protein 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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eb3-mapre3-antibody-flow-cytometry-western-blot-elisa/127328>