10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-EB2 Antibody

Catalog # AP60160

Product Information

Application	WB, IF/IC
Primary Accession	Q15555
Reactivity	Human, Mouse, Rat, Chicken, Bovine, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37031

Additional Information

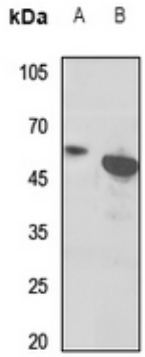
Gene ID	10982
Other Names	RP1; Microtubule-associated protein RP/EB family member 2; APC-binding protein EB2; End-binding protein 2; EB2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human EB2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

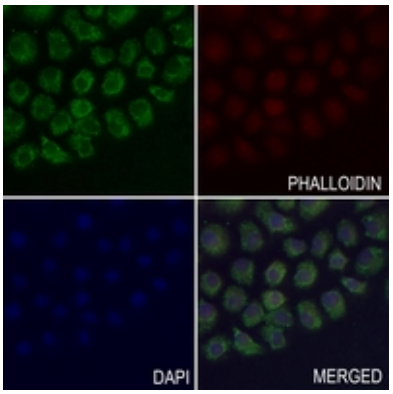
Name	MAPRE2
Synonyms	RP1
Function	Adapter protein that is involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes. Therefore, ensures mitotic progression and genome stability (PubMed:27030108). Acts as a central regulator of microtubule reorganization in apico-basal epithelial differentiation (By similarity). Plays a role during oocyte meiosis by regulating microtubule dynamics (By similarity). Participates in neurite growth by interacting with plexin B3/PLXNB3 and microtubule reorganization during apico-basal epithelial differentiation (PubMed:22373814). Also plays an essential role for cell migration and focal adhesion dynamics. Mechanistically, recruits HAX1 to microtubules in order to regulate focal adhesion dynamics (PubMed:26527684).
Cellular Location	Cytoplasm, cytoskeleton. Note=Associated with the microtubule network.

	Accumulates at the plus end of microtubules
Tissue Location	Expressed in different tumor cell lines. Up- regulated in activated B- and T-lymphocytes

Images



Western blot analysis of EB2 expression in mouse heart (A), rat heart (B) whole cell lysates. (Predicted band size: 37 kD; Observed band size: 50 kD)



Immunofluorescent analysis of EB2 staining in SGC7901 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.