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EB2 Rabbit pAb

Catalog # AP97223

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q15555
Other Accession	Q15555
Reactivity	Human, Mouse
Predicted	Rat, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37031
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human End binding protein 2
Epitope Specificity	101-200/327
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the MAPRE family.Contains 1 CH (calponin-homology) domain.Contains 1 EB1 C-terminal domain.
SUBUNIT	Interacts with DCTN1. Binds to the C-terminal domain of APC. Binds monomeric and polymerized tubulin.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene shares significant homology to the adenomatous polyposis coli (APC) protein-binding EB1 gene family. This protein is a microtubule-associated protein that is necessary for spindle symmetry during mitosis. It is thought to play a role in the tumorigenesis of colorectal cancers and the proliferative control of normal cells. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012].

Additional Information

Gene ID	10982
Other Names	MARE2_HUMAN; MAPRE2; APC-binding protein EB2; End-binding protein 2 (EB2); RP1; CSCSC2; EB1; EB2; microtubule associated protein RP/EB family member 2; APC-binding protein EB1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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