

ARG43642 anti-MAPRE1 / EB1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MAPRE1 / EB1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MAPRE1 / EB1
Species	Human
Immunogen	Recombinant protein fragment of Human MAPRE1 / EB1.
Conjugation	Un-conjugated
Alternate Names	EB1; APC-binding protein EB1; End-binding protein 1

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 30-35 kDa	

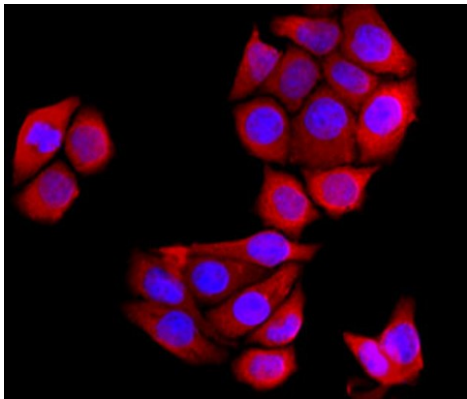
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS, 0.01% Thimerosal and 50% Glycerol.
Preservative	0.01% Thimerosal
Stabilizer	50% Glycerol
Concentration	Batch dependent
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	MAPRE1
Gene Full Name	microtubule associated protein RP/EB family member 1
Background	The protein encoded by this gene was first identified by its binding to the APC protein which is often mutated in familial and sporadic forms of colorectal cancer. This protein localizes to microtubules, especially the growing ends, in interphase cells. During mitosis, the protein is associated with the centrosomes and spindle microtubules. The protein also associates with components of the dynactin complex and the intermediate chain of cytoplasmic dynein. Because of these associations, it is thought that this protein is involved in the regulation of microtubule structures and chromosome stability. This gene is a member of the RP/EB family. [provided by RefSeq, Jul 2008]
Function	Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton (PubMed:12388762, PubMed:16109370, PubMed:19632184, PubMed:21646404, PubMed:23001180, PubMed:28726242, PubMed:28814570, PubMed:34608293). Promotes cytoplasmic microtubule nucleation and elongation (PubMed:12388762, PubMed:16109370, PubMed:19632184, PubMed:21646404, PubMed:28726242, PubMed:28814570). Involved in mitotic spindle positioning by stabilizing microtubules and promoting dynamic connection between astral microtubules and the cortex during mitotic chromosome segregation (PubMed:12388762, PubMed:34608293). 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). Acts as a regulator of autophagosome transport via interaction with CAMSAP2 (PubMed:28726242). May play a role in cell migration (By similarity). [UniProt]
Calculated Mw	30 kDa
PTM	Acetylation; Phosphoprotein
Cellular Localization	Cytoplasm; Cytoskeleton; Golgi apparatus; Microtubule

Images

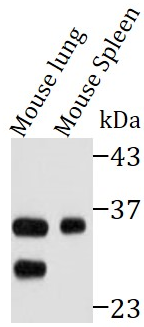


ARG43642 anti-MAPRE1 / EB1 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG43642 anti-MAPRE1 / EB1 antibody at 1:100 dilution, overnight at 4°C.

ARG43642 anti-MAPRE1 / EB1 antibody WB image

Western blot: Mouse lung and Mouse spleen tissue were stained with ARG43642 anti-MAPRE1 / EB1 antibody at 1:10000 dilution, overnight at 4°C.



ARG43642 anti-MAPRE1 / EB1 antibody WB image

Western blot: U-87MG and LO2 cell lysates were stained with ARG43642 anti-MAPRE1 / EB1 antibody at 1:10000 dilution, overnight at 4°C.

