

CEP55 Recombinant Mouse mAb

Catalog # AP96387

Product Information

Application	WB
Predicted	Human
Host	Mouse
Clonality	Recombinant
Physical State	Liquid
Isotype	IgG1, Kappa
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBUNIT	Homodimer. Interacts (phosphorylated on Ser-425 and Ser-428) with PLK1. Interacts with AKAP9; the interaction occurs in interphase and is lost upon mitotic entry. Interacts with PCNT; the interaction occurs in interphase and is lost upon mitotic entry. Interacts with PDCD6IP; the interaction is direct; CEP55 binds PDCD6IP in a 2:1 stoichiometry; PDCD6IP competes with TSG101 for the same binding site. Interacts with TSG101; TSG101 competes with PDCD6IP for the same binding site; interaction is required for cytokinesis but not for viral budding. Interacts with MVB12A, VPS37B, VPS37C and VPS28.
Post-translational modifications	There is a hierarchy of phosphorylation, where both Ser-425 and Ser-428 are phosphorylated at the onset of mitosis, prior to Ser-436. Phosphorylation at Ser-425 and Ser-428 is required for dissociation from the centrosome at the G2/M boundary. Phosphorylation at the 3 sites, Ser-425, Ser-428 and Ser-436, is required for protein function at the final stages of cell division to complete cytokinesis successfully.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	CEP55 (Centrosomal protein 55kDa) is essential for mitotic exit and cytokinesis. It is not required for microtubule nucleation.

Additional Information

Other Names	C10orf3; CT111; MARCH; URCC6; 1200008O12Rik; 2700032M20Rik; RGD1305340; CEP55_HUMAN; CEP55; Up-regulated in colon cancer 6; CEP55_MOUSE; CEP55_RAT; centrosomal protein 55; chromosome 10 open reading frame 3; centrosomal protein 55kDa; cancer/testis antigen 111
Dilution	WB=1:500-1000, ICC/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.
Name	CEP55 Recombinant Mouse mAb
Function	Plays a role in mitotic exit and cytokinesis. Not required for microtubule

nucleation. Recruits PDCD6IP and TSG101 to midbody during cytokinesis.

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