

14629

CLASP2 (D5K3E) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Product Usage InformationApplication Western BlottingDilution 1:1000StorageSupplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. S 20°C. Do not aliquot the antibody.Specificity/SensitivityCLASP2 (D5K3E) Rabbit mAb recognizes endogenous levels of total CLASP2 protein. This anticross-reacts with an unidentified protein of 95 kDa.Source / PurificationMonoclonal antibody is produced by immunizing animals with a synthetic peptide corresponseidues surrounding Alaz89 of human CLASP2 protein.BackgroundMicrotubules (MTS) are polarized cellular filaments composed of α/β tubulin heterodimers. T growing (plus) ends extending to the cell periphery. The regulation of MT dynamics is an impart of several biological processes, including cell division, migration, adhesion, membrane than and polarity (1). Human cytoplasmic linker-associate proteins 1 and 2 (CLASP1 and CLASP2) are evolutionarily proteins that localize to the plus ends of interphase microtubules. During mitosis, CLASP 1 allocalize to the centrosomes and kinetochores (KT) where they regulate mitotic spindle position carboxy terminus of CLASP2 during mitosis by CDK1 and PLK1 is required for efficient mitotic attachment (4). Phosphorylation of CLASP2 at Ser1013 is a critical step that primes CLASP2 fiphosphorylation by PLK1 (4). The additional phosphorylation of CLASP2 at Ser533 and Ser53 3β controls the distribution of CLASP2 on MTs by inhibiting CLASP2 interaction with the Rac1 effector protein IQGAP1 (5).Background References1. Wiese, C. and Zheng, Y. (2006) J Cell Sci 119, 4143-53.	oplications: W	t ID: Entrez-Ge 22 2312	
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Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat

dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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