

12140

CP110 Antibody



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Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit	UniProt ID: #O43303	Entrez-Gene Id: 9738
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CP110 Antibody recognizes endogenous levels of total CP110 protein. This antibody cross-reacts with a protein of unknown origin at \sim 65 kDa.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues around Ser580 of human CP110 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The centrosome is an organelle that plays an important role in the mammalian cell cycle. Prior to the onset of mitosis, the single interphase centrosome duplicates only once, creating a pair of daughter centrosomes that will form the two spindle poles after breakdown of the nuclear envelope. Failure to duplicate or overduplication of the centrosome can result in polyploidy and genomic instability (reviewed in 1). Centrosomal protein of 110 kDa (CP110) is a cyclin-dependent kinase (CDK) substrate that plays a critical role in promoting the duplication of centrosomes and correct spindle formation (2). In addition, CP110 has been shown to interact with calmodulin (CaM) and centrin to regulate the progression through cytokinesis (3), and with Cep97 and Cep290 to regulate the formation of primary cilia (4,5). CP110 expression is induced in G1/S with peak expression during S-phase. Degradation of CP110 is mediated by cyclin F in G2-phase and is required for normal progression into M-phase (6).				
Background References		 Hinchcliffe, E.H. and Sluder, G. (2001) Genes Dev 15, 1167-81. Chen, Z. et al. (2002) Dev Cell 3, 339-50. Tsang, W.Y. et al. (2006) Mol Biol Cell 17, 3423-34. Spektor, A. et al. (2007) Cell 130, 678-90. Tsang, W.Y. et al. (2008) Dev Cell 15, 187-97. D'Angiolella, V. et al. (2010) Nature 466, 138-42. 				

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 Mk: Monkey

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