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CEP72 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16441c

Product Information

Application	WB, E
Primary Accession	Q9P209
Other Accession	NP_060610.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35983
Calculated MW	71718
Antigen Region	231-259

Additional Information

Gene ID	55722
Other Names	Centrosomal protein of 72 kDa, Cep72, CEP72, KIAA1519
Target/Specificity	This CEP72 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 231-259 amino acids from the Central region of human CEP72.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CEP72 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CEP72
Synonyms	KIAA1519
Function	Involved in the recruitment of key centrosomal proteins to the centrosome. Provides centrosomal microtubule-nucleation activity on the gamma-tubulin

ring complexes (gamma-TuRCs) and has critical roles in forming a focused bipolar spindle, which is needed for proper tension generation between sister chromatids. Required for localization of KIZ, AKAP9 and gamma-tubulin ring complexes (gamma-TuRCs) (PubMed:19536135). Involved in centriole duplication. Required for CDK5RAP22, CEP152, WDR62 and CEP63 centrosomal localization and promotes the centrosomal localization of CDK2 (PubMed:26297806).

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite. Note=Localizes to the centrosome and centrosome-surrounding particles throughout the cell cycle. These particles disappear after microtubules are depolymerized using nocodazole, suggesting that CEP72-associating particles localize in a microtubule- dependent manner

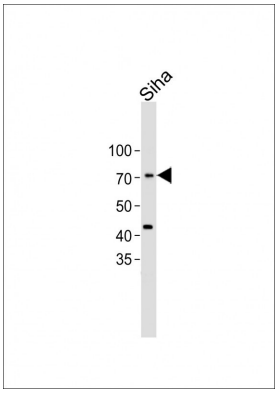
Background

CEP72 is a member of the leucine-rich-repeat (LRR) superfamily of proteins. The protein is localized to the centrosome, a non-membraneous organelle that functions as the major microtubule-organizing center in animal cells.

References

McGovern, D.P., et al. Nat. Genet. 42(4):332-337(2010)
Briggs, F.B., et al. Genes Immun. 11(3):199-208(2010)
Oshimori, N., et al. EMBO J. 28(14):2066-2076(2009)
Xin, X., et al. Genome Res. 19(7):1262-1269(2009)
Olsen, J.V., et al. Cell 127(3):635-648(2006)

Images



All lanes: Anti-CEP72 Antibody (Center) at 1:1000 dilution + Siha whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 71. 7 KDa Blocking/Dilution buffer: 5% NFDM/TBST.