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CCDC99 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13504b

Specification

CCDC99 Antibody (C-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q96EA4
Other Accession	Q4R7H3, NP_060255.3
Reactivity	**Human**
Predicted	**Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**70172**
Antigen Region	**459-488**

CCDC99 Antibody (C-term) - Additional Information

Gene ID 54908

Other Names
Protein Spindly {ECO:0000255|HAMAP-Rule:MF_03041}, hSpindly, Arsenite-related gene 1 protein, Coiled-coil domain-containing protein 99 {ECO:0000255|HAMAP-Rule:MF_03041}, Rhabdomyosarcoma antigen MU-RMS-404A, Spindle apparatus coiled-coil domain-containing protein 1 {ECO:0000255|HAMAP-Rule:MF_03041}, SPDL1 {ECO:0000255|HAMAP-Rule:MF_03041}

Target/Specificity
This CCDC99 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 459-488 amino acids from the C-terminal region of human CCDC99.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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
CCDC99 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CCDC99 Antibody (C-term) - Protein Information

Name SPDL1 {ECO:0000255|HAMAP-Rule:MF_03041}

Function Required for the localization of dynein and dynactin to the mitotic kintochore. Dynein is believed to control the initial lateral interaction between the kinetochore and spindle microtubules and to facilitate the subsequent formation of end-on kinetochore-microtubule attachments mediated by the NDC80 complex. Also required for correct spindle orientation. Does not appear to be required for the removal of spindle assembly checkpoint (SAC) proteins from the kinetochore upon bipolar spindle attachment (PubMed:17576797, PubMed:19468067). Acts as an adapter protein linking the dynein motor complex to various cargos and converts dynein from a non-processive to a highly processive motor in the presence of dynactin. Facilitates the interaction between dynein and dynactin and activates dynein processivity (the ability to move along a microtubule for a long distance without falling off the track) (PubMed:25035494). Plays a role in cell migration (PubMed:30258100).

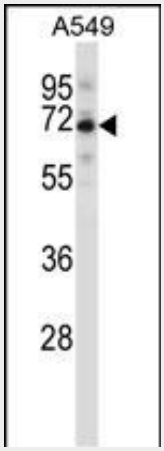
Cellular Location
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Nucleus Cytoplasm, cytoskeleton, spindle pole. Note=Localizes to the nucleus in interphase and to the kinetochore in early prometaphase. Relocalizes to the mitotic spindle pole before metaphase and is subsequently lost from the spindle poles after chromosome congression is completed. Removal of this protein from the kinetochore requires the dynein/dynactin complex

CCDC99 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CCDC99 Antibody (C-term) - Images



CCDC99 Antibody (C-term) (Cat. #AP13504b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the CCDC99 antibody detected the CCDC99 protein (arrow).

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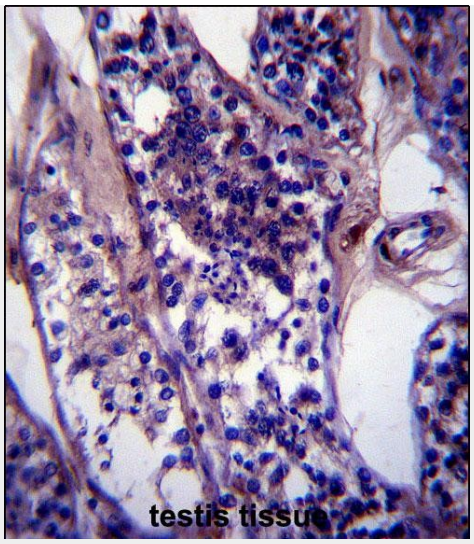

CCDC99 Antibody (C-term) (Cat. #AP13504b)immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CCDC99 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

CCDC99 Antibody (C-term) - Background

CCDC99 is required for the localization of dynein and dynactin to the mitotic kintochore. Dynein is believed to control the initial lateral interaction between the kinetochore and spindle microtubules and to facilitate the subsequent formation of end-on kinetochore-microtubule attachments mediated by the NDC80 complex. Also required for correct spindle orientation. Does not appear to be required for the removal of spindle assembly checkpoint (SAC) proteins from the kinetochore upon bipolar spindle attachment.

CCDC99 Antibody (C-term) - References

Barisic, M., et al. Mol. Biol. Cell 21(12):1968-1981(2010)
Gassmann, R., et al. Genes Dev. 24(9):957-971(2010)
Chan, Y.W., et al. J. Cell Biol. 185(5):859-874(2009)