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CEP63 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP4805c

Specification

CEP63 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O96MT8
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Antigen Region	**520-548**

CEP63 Antibody (Center) - Additional Information

Gene ID 80254

Other Names
Centrosomal protein of 63 kDa, Cep63, CEP63

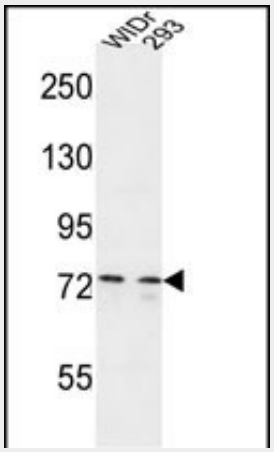
Target/Specificity
This CEP63 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 520-548 amino acids from the Central region of human CEP63.

Dilution
WB~~1:1000
IHC-P~~1:50~100

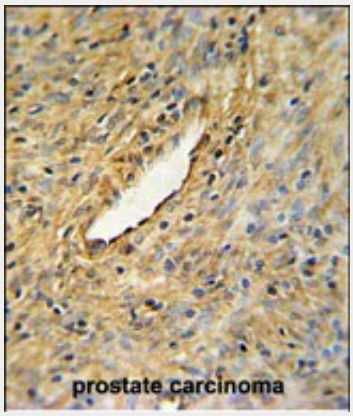
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
CEP63 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.



CEP63 Antibody (Center) (Cat. #AP4805c) western blot analysis in WiDr,293 cell line lysates (35ug/lane).This demonstrates the CEP63 antibody detected the CEP63 protein (arrow).



CEP63 Antibody (Center) (Cat. #AP4805c) IHC analysis in formalin fixed and paraffin embedded prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CEP63 Antibody (Center)) for immunohistochemistry. Clinical relevance has not been evaluated.

CEP63 Antibody (Center) - Background

CEP63 is a protein with six coiled-coil domains.

CEP63 Antibody (Center) - Protein Information

Name CEP63 (HGNC:25815)

Function
Required for normal spindle assembly. Plays a key role in mother-centriole-dependent centriole duplication; the function seems also to involve CEP152, CDK5RAP2 and WDR62 through a stepwise assembled complex at the centrosome that recruits CDK2 required for centriole duplication. Reported to be required for centrosomal recruitment of CEP152; however, this function has been questioned (PubMed:21983783, PubMed:26297806). Also recruits CDK1 to centrosomes (PubMed:21406398). Plays a role in DNA damage response. Following DNA damage, such as double-strand breaks (DSBs), is removed from centrosomes; this leads to the inactivation of spindle assembly and delay in mitotic progression (PubMed:21406398).

Cellular Location
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite Note=Colocalizes with CDK5RAP2, CEP152 and WDR62 in a discrete ring around the proximal end of the parental centriole. At this site, a cohesive structure is predicted to engage parental centrioles and procentrioles.

The protein is localized to the centrosome, a non-membraneous organelle that functions as the major microtubule-organizing center in animal cells.

CEP63 Antibody (Center) - References

Sovio, U., et al. PLoS Genet. 5 (3), E1000409 (2009)
Weedon, M.N., et al. Nat. Genet. 40(5):575-583(2008)
Petretti, C., et al. EMBO Rep. 7(4):418-424(2006)

CEP63 Antibody (Center) - 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