

Rabbit CP110 Polyclonal Antibody | anti-CP110 antibody

Anti-CP110 Picoband antibody

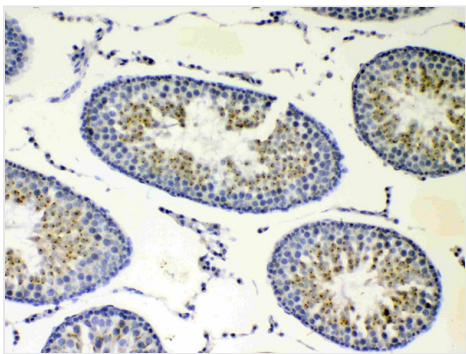
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124727	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

CP110; Polyclonal Antibody; Anti-CP110 Picoband antibody; Centriolar coiled-coil protein of 110 kDa; Centrosomal protein of 110 kDa; Cep110; CCP110; CEP110; KIAA0419; anti-CP110 antibody

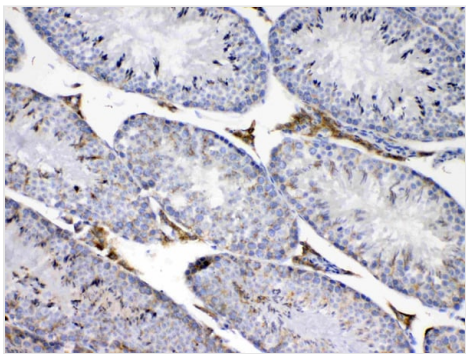
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	991
Applicable Applications for anti-CP110 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived human CP110 recombinant protein (Position: E51-H284).
Subcellular Localization	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole.
Tissue Specificity	Highly expressed in testis. Detected at intermediate levels in spleen, thymus, prostate, small intestine, colon and peripheral blood leukocytes.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



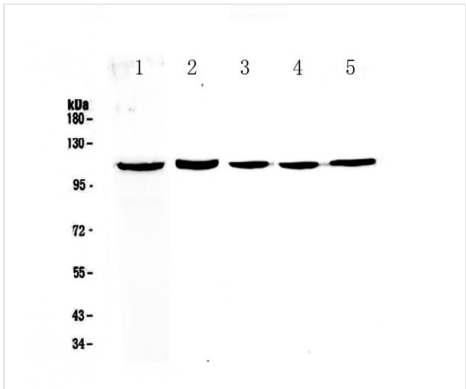
IHC (Immunohistochemistry)

Figure 3. IHC analysis of CP110 using anti-CP110 antibody (AAA124727).CP110 was detected in paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CP110 Antibody (AAA124727) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of CP110 using anti-CP110 antibody (AAA124727).CP110 was detected in paraffin-embedded section of mouse testis tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CP110 Antibody (AAA124727) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of CP110 using anti-CP110 antibody (AAA124727).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human Hela cell lysates,Lane 2: rat testis tissue lysates,Lane 3: mouse testis tissue lysates,Lane 4: mouse spleen tissue lysates,Lane 5: mouse thymus tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CP110 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CP110 at approximately 110KD. The expected band size for CP110 is at 113KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CP110 antibody	Description: Centriolar coiled-coil protein of 110 kDa also known as centrosomal protein of 110 kDa or CP110 is a protein that in humans is encoded by the CCP110 gene. This gene is mapped to chromosome 16p12.3. It is a cell cycle-dependent CDK substrate and regulates centrosome duplication. CP110 suppresses a cilia assembly program. CCP110 functions in a protein complex that participates in the transition of centrioles from basal body function to centrosomal function. Protein Function: Necessary for centrosome duplication at different stages of procentriole formation. Acts as a key negative regulator of ciliogenesis in collaboration with CEP97 by capping the mother centriole thereby preventing cilia formation (PubMed: 17719545 PubMed: 17681131, PubMed: 23486064). Also involved in promoting ciliogenesis. May play a role in the assembly of the mother centriole subdistal appendages (SDA) thereby effecting the fusion of recycling endosomes to basal bodies during cilia formation (By similarity). Required for correct spindle formation and has a role in regulating cytokinesis and genome stability via cooperation with CALM1 and CETN2 (PubMed: 16760425).
Product Categories/Family for anti-CP110 antibody	Cell Biology; Cell Cycle; Cell Division; spindle; Cell Biology; cytokinesis; Tags & Cell Markers; Subcellular Markers; organelles; centrosome; Cancer

NCBI AND UNIPROT INFORMATION

NCBI GI #	1021311949
NCBI GeneID	9738
NCBI Accession #	NP_001185951.2
NCBI GenBank Nucleotide #	NM_001199022.2
UniProt Accession #	O43303; O43335; Q68DV9; Q8NE13; B7WP23
Molecular Weight	111,224 Da
NCBI Official Full Name	centriolar coiled-coil protein of 110 kDa isoform 1
NCBI Official Synonym Full Names	centriolar coiled-coil protein 110
NCBI Official Symbol	CCP110
NCBI Official Synonym Symbols	CP110; Cep110
NCBI Protein Information	centriolar coiled-coil protein of 110 kDa
UniProt Protein Name	Centriolar coiled-coil protein of 110 kDa
UniProt Gene Name	CCP110
UniProt Synonym Gene Names	CEP110; CP110; KIAA0419; CP110; Cep110

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cp110-antibody-western-blot-immunohistochemistry-elisa/124727>