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Anti-TCP1 epsilon Picoband Antibody

Catalog # ABO12613

Product Information

Application	WB, IHC-P, ICC
Primary Accession	P48643
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for T-complex protein 1 subunit epsilon(CCT5) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	22948
Other Names	T-complex protein 1 subunit epsilon, TCP-1-epsilon, CCT-epsilon, CCT5, CCTE, KIAA0098
Calculated MW	59671
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Human, Rat Immunocytochemistry, 0.5-1 □g/ml, Human
Subcellular Localization	Cytoplasm . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome .
Source	Eukaryota
Protein Name	T-complex protein 1 subunit epsilon
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E. coli-derived human TCP1 epsilon recombinant protein (Position: L443-K535). Human TCP1 epsilon shares 95.7% amino acid (aa) sequence identity with both mouse and rat TCP1 epsilon.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Protein Information

Name	CCT5
Synonyms	CCTE, KIAA0098 {ECO:0000303|PubMed:77885
Function	Component of the chaperonin-containing T-complex (TRiC), a molecular chaperone complex that assists the folding of actin, tubulin and other proteins upon ATP hydrolysis (PubMed:25467444, PubMed:36493755, PubMed:35449234, PubMed:37193829). The TRiC complex mediates the folding of WRAP53/TCAB1, thereby regulating telomere maintenance (PubMed:25467444). As part of the TRiC complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia (PubMed:20080638).
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

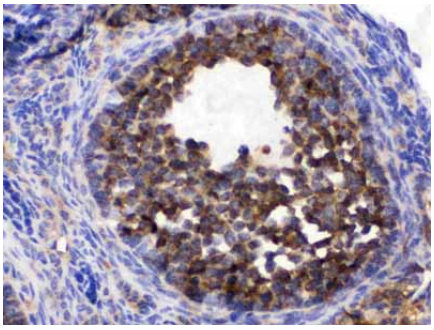
Background

CCT5 is a molecular chaperone that is a member of the chaperonin containing TCP1 complex (CCT), also known as the TCP1 ring complex (TRiC). This complex consists of two identical stacked rings, each containing eight different proteins. Unfolded polypeptides enter the central cavity of the complex and are folded in an ATP-dependent manner. The complex folds various proteins, including actin and tubulin. Mutations in this gene cause hereditary sensory and autonomic neuropathy with spastic paraplegia (HSNSP). Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 5 and 13.

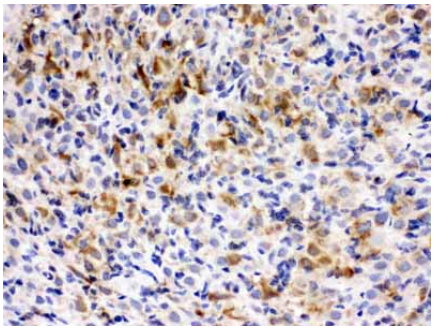
Images



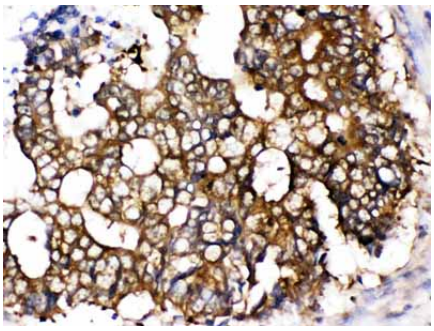
Western blot analysis of TCP1 epsilon expression in rat testis extract (lane 1) and HELA whole cell lysates (lane 2). TCP1 epsilon at 60KD was detected using rabbit anti-TCP1 epsilon Antigen Affinity purified polyclonal antibody (Catalog # ABO12613) at 0.5 □¼g/mL. The blot was developed using chemiluminescence (ECL) method .



TCP1 epsilon was detected in paraffin-embedded sections of mouse ovary tissues using rabbit anti- TCP1 epsilon Antigen Affinity purified polyclonal antibody (Catalog # ABO12613) at 1 □¼g/mL. The immunohistochemical section was developed using SABC method .



TCP1 epsilon was detected in paraffin-embedded sections of rat ovary tissues using rabbit anti- TCP1 epsilon Antigen Affinity purified polyclonal antibody (Catalog # ABO12613) at 1 □¼g/mL. The immunohistochemical section was developed using SABC method .



TCP1 epsilon was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- TCP1 epsilon Antigen Affinity purified polyclonal antibody (Catalog # ABO12613) at 1 ??g/mL. The immunohistochemical section was developed using SABC method .

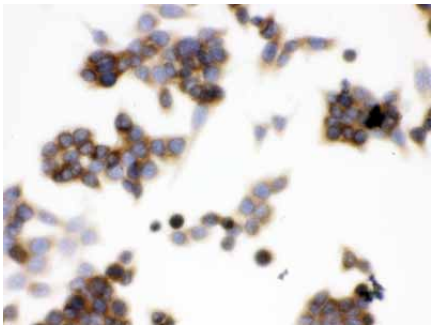


Figure 5. IHC analysis of TCP1 epsilon using anti-TCP1 epsilon antibody (ABO12613).TCP1 epsilon was detected in immunocytochemical section of LOVO cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 □¼g/ml rabbit anti-TCP1 epsilon Antibody (ABO12613) overnight at 4 □°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 □°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.