

# CCT2 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1624a

## Product Information

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| <b>Application</b>       | WB, FC, ICC, E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Primary Accession</b> | <a href="#">P78371</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Reactivity</b>        | Human, Mouse, Rat, Monkey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Host</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Clonality</b>         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Clone Names</b>       | 5B5C4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Isotype</b>           | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Calculated MW</b>     | 57488                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>       | The protein encoded by this gene 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. Two transcript variants encoding different isoforms have been found for this gene. |
| <b>Immunogen</b>         | Purified recombinant fragment of human CCT2 expressed in E. Coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Formulation</b>       | Ascitic fluid containing 0.03% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Additional Information

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| <b>Gene ID</b>     | 10576                                                                                                                                    |
| <b>Other Names</b> | T-complex protein 1 subunit beta, TCP-1-beta, CCT-beta, CCT2, 99D8.1, CCTB                                                               |
| <b>Dilution</b>    | WB~~1/500 - 1/2000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000                                                                                 |
| <b>Storage</b>     | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| <b>Precautions</b> | CCT2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.                                          |

## Protein Information

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|-----------------|----------------------------------------------------------------------|
| <b>Name</b>     | CCT2 {ECO:0000303 PubMed:25467444, ECO:0000312 HGNC:HGNC:1615}       |
| <b>Function</b> | 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.

## References

1. J Biol Chem. 2009 May 29;284(22):14939-48. 2. Mol Cell Proteomics. 2009 Jan;8(1):157-71.

## Images

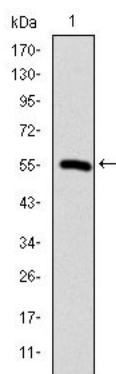


Figure 1: Western blot analysis using CCT2 mAb against human CCT2 (AA: 87-290) recombinant protein. (Expected MW is 47.9 kDa)

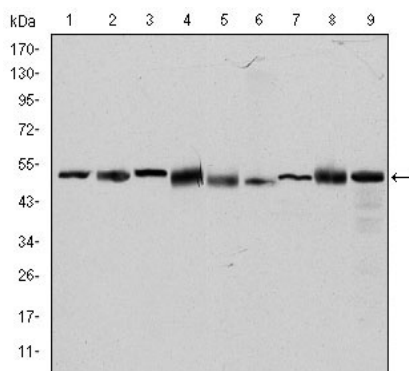


Figure 2: Western blot analysis using CCT2 mouse mAb against Hela (1), MCF-7 (2), Jurkat (3), T47D (4), K562 (5), A431 (6), NIH/3T3 (7), PC-12 (8) and Cos7 (9) cell lysate.

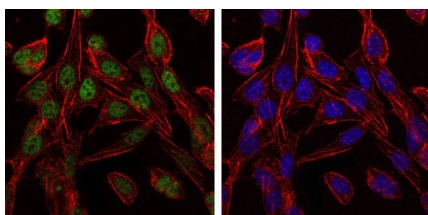


Figure 3: Immunofluorescence analysis of 3T3-L1 cells using CCT2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

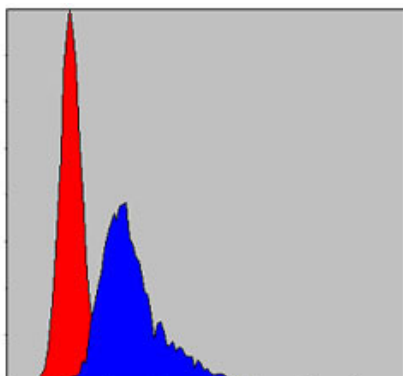


Figure 4: Flow cytometric analysis of NIH/3T3 cells using CCT2 mouse mAb (blue) and negative control (red).

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