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KD-Validated Anti-CCT2 beta Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2241

Specification

KD-Validated Anti-CCT2 beta Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P78371
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 57 kDa; observed, 54 kDa KDa**
Gene Name	**CCT2**
Aliases	**CCT2; Chaperonin Containing TCP1 Subunit 2; Cctb; Chaperonin Containing TCP1, Subunit 2 (Beta); T-Complex Protein 1 Subunit Beta; TCP-1-Beta; CCT-Beta; 99D8.1; Chaperonin Containing T-Complex Polypeptide 1, Beta Subunit; Chaperonin Containing T-Complex Polypeptide 1, Subunit 2; Chaperonin Containing T-Complex Polypeptide 1 Subunit 2; Epididymis Secretory Sperm Binding Protein Li 100n; T-Complex Protein 1, Beta Subunit; HEL-S-100n; PRO1633; CCTB**
Immunogen	**A synthesized peptide derived from human TCP 1 beta**

KD-Validated Anti-CCT2 beta Rabbit Monoclonal Antibody - Additional Information

Gene ID	**10576**

Other Names
T-complex protein 1 subunit beta, TCP-1-beta, CCT-beta, Chaperonin containing T-complex polypeptide 1 subunit 2, CCT2, 99D8.1, CCTB

KD-Validated Anti-CCT2 beta Rabbit Monoclonal Antibody - Protein Information

Name CCT2 {ECO:0000303|PubMed:25467444, ECO:0000312|HGNC:HGNC:1615}

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).

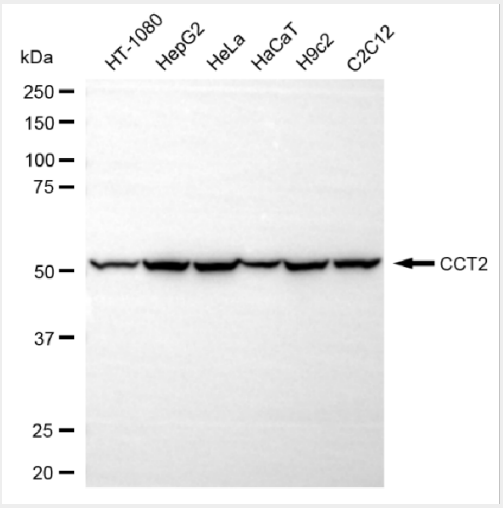
Cellular Location
Cytoplasm.

KD-Validated Anti-CCT2 beta Rabbit Monoclonal Antibody - Protocols

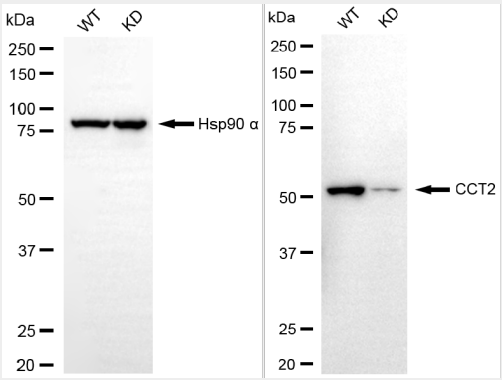
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-CCT2 beta Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-CCT2 antibody (Cat#AGI2241). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CCT2 antibody (Cat#AGI2241, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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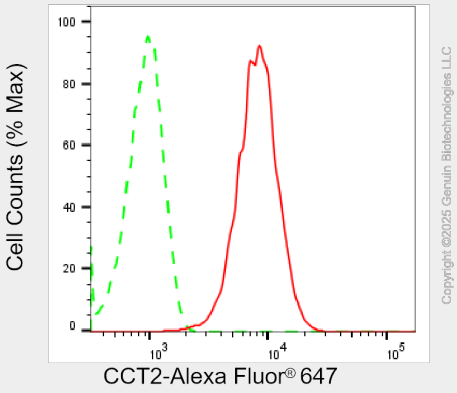
Western blotting analysis using anti-CCT2 antibody (Cat#AGI2241). CCT2 expression in wild-type (WT) and CCT2 knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CCT2 antibody (Cat#AGI2241, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of CCT2 expression in HepG2 cells using anti-CCT2 antibody (Cat#AGI2241, 1:2,000). Green, isotype control; red, CCT2.