Anti-TCP1 delta Antibody [A8E2]

HA601064

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 58 kDa
Clone number:	A8E2

Description: Component of the chaperonin-containing T-complex (TRiC), a molecular chaperone complex that assists the folding of proteins upon ATP hydrolysis. The TRiC complex mediates the folding of WRAP53/TCAB1, thereby regulating telomere maintenance. 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. The TRiC complex plays a role in the folding of actin and tubulin (Probable). The chaperonin containing TCP1 (MIM 186980) complex (CCT), also called the TCP1 ring complex, consists of 2 back-to-back rings, each containing 8 unique but homologous subunits, such as CCT4. CCT assists the folding of newly translated polypeptide substrates through multiple rounds of ATP-driven release and rebinding of partially folded intermediate forms. Substrates of CCT include the cytoskeletal proteins actin (see MIM 102560) and tubulin, as well as alpha-transducin (MIM 139330).

Immunogen: Recombinant protein within human TCP1 delta aa 200-450.

Positive control: Hela cell lysate, A549 cell lysate, PC-12 cell lysate, SH-SY5Y cell lysate, THP-1 cell lysate, PC-3M cell lysate, Jurkat cell lysate, mouse testis tissue lysate, rat spleen tissue lysate, rat brain tissue lysate, human breast carcinoma tissue, human stomach tissue.

Subcellular location: Cytoskeleton

Database links: SwissProt: P50991 Human | P80315 Mouse | Q7TPB1 Rat

Recommended Dilutions:

WB	1:1,000
IHC-P	1:800

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

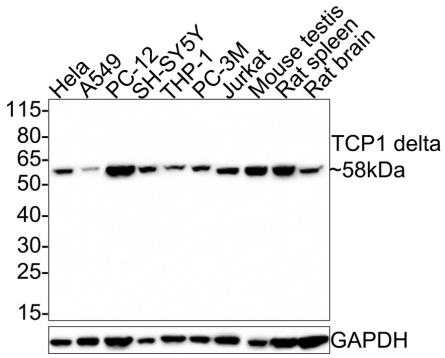

Fig1: Western blot analysis of TCP1 delta on different lysates with Mouse anti-TCP1 delta antibody (HA601064) at 1/1,000 dilution.

Lane 1: Hela cell lysate (10 µg/Lane)
Lane 2: A549 cell lysate (10 µg/Lane)
Lane 3: PC-12 cell lysate (10 µg/Lane)
Lane 4: SH-SY5Y cell lysate (10 µg/Lane)
Lane 5: THP-1 cell lysate (10 µg/Lane)
Lane 6: PC-3M cell lysate (10 µg/Lane)
Lane 7: Jurkat cell lysate (10 µg/Lane)
Lane 8: Mouse testis tissue lysate (20 µg/Lane)
Lane 9: Rat spleen tissue lysate (20 µg/Lane)
Lane 10: Rat brain tissue lysate (20 µg/Lane)

Predicted band size: 58 kDa
Observed band size: 58 kDa

Exposure time: 58 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA601064) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:100,000 dilution was used for 1 hour at room temperature.

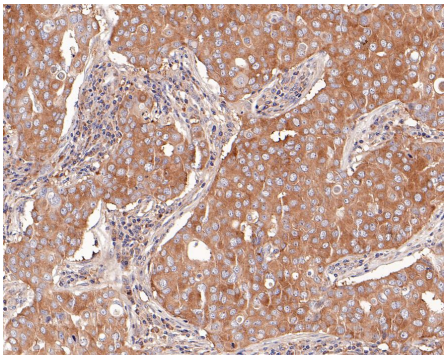

Fig2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue with Mouse anti-TCP1 delta antibody (HA601064) at 1/800 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA601064) at 1/800 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

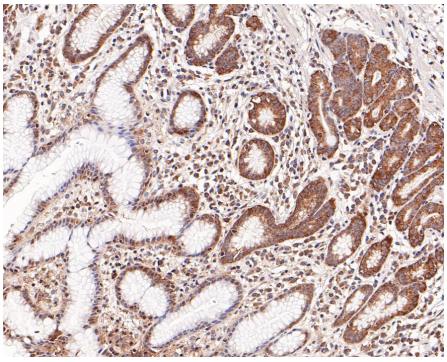

Fig3: Immunohistochemical analysis of paraffin-embedded human stomach tissue with Mouse anti-TCP1 delta antibody (HA601064) at 1/800 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA601064) at 1/800 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Freund A., Zhong F.L., Venteicher A.S., Meng Z., Veenstra T.D., Frydman J., Artandi S.E. Proteostatic control of telomerase function through TRiC-mediated folding of TCAB1. Cell 159:1389-1403(2014)
2. Seo S., Baye L.M., Schulz N.P., Beck J.S., Zhang Q., Slusarski D.C., Sheffield V.C. BBS6, BBS10, and BBS12 form a complex with CCT/TRiC family chaperonins and mediate BBSome assembly. Proc. Natl. Acad. Sci. U.S.A. 107:1488-1493(2010)