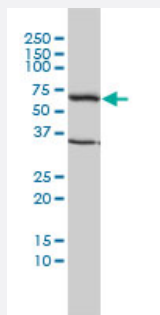


TCP1 monoclonal antibody (M01), clone 2B2-D6

Catalog # H00006950-M01

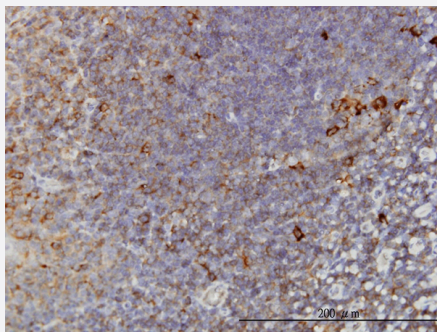
Size 100 ug

Applications



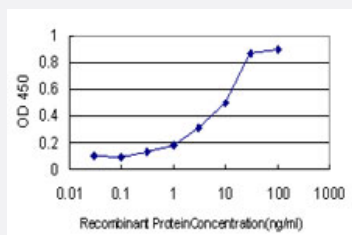
Western Blot (Cell lysate)

TCP1 monoclonal antibody (M01), clone 2B2-D6 Western Blot analysis of TCP1 expression in HeLa (Cat # L013V1).



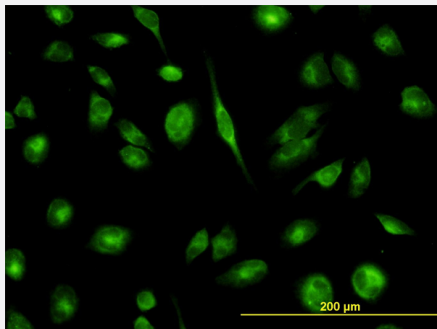
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to TCP1 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]



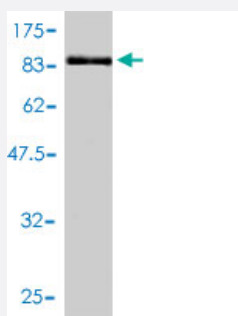
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged TCP1 is approximately 0.1ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to TCP1 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (87.01 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant TCP1.
Immunogen	TCP1 (AAH00665, 1 a.a. ~ 556 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MEGPLSVFGDRSTGETIRSQNVMAAASIANVKSSFPGVGLDKMLVDDIGDVTITNDGATILKLLEV EHPAAKVLCCELADLQDKEVGDGTTSVVIAAELLKNADELVKQKIHPTSVISGYRLACKEAVRYINE NLVNTDELGRDCLINAAKTSMSSKIIGINGDFFANMVVDAVLAIKYTDIRGQPRYPVNSVNILKAHGR SQMESMLISGYALNCVVGSQGMKPRMNAKICLDFSLQKTKMKLGVQVVITDPEKLDQIRQRES DITKERIQKILATGANVILTTGGIDDMCLKYFVEAGAMAVRRVLKRDLEKRIKASGATILSTLANLEGEE TFEAMLGQAEEVVQERICDDELILIKNTKARTSASILRGANDFMCEMERSLHDALCVVKRVLE SKSVVPGGGAVEAALSIMLENYATSMGSREQLAIEFARSLLVIPNTLAVNAAQDSTDLVAKLRAF HNEAQVNPERKNLKWIGLDLSNGKPRDNKQAGVFEPTIVKVKSLKFATEAAITLRIDDLIKLHPESK DDKHGSYEDAVHSGALND
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (97); Rat (97)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (87.01 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

TCP1 monoclonal antibody (M01), clone 2B2-D6 Western Blot analysis of TCP1 expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Detection limit for recombinant GST tagged TCP1 is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to TCP1 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — TCP1

Entrez GeneID

[6950](#)

GeneBank Accession#

[BC000665](#)

Protein Accession#

[AAH00665](#)

Gene Name

TCP1

Gene Alias

CCT-alpha, CCT1, CCTa, D6S230E, TCP-1-alpha

Gene Description	t-complex 1
Omim ID	186980
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a molecular chaperone that is 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. Alternate transcriptional splice variants of this gene, encoding different isoforms, have been characterized. [provided by RefSeq]
Other Designations	OTTHUMP00000017529 T-complex protein 1 T-complex protein 1, alpha subunit tailless complex polypeptide 1

Publication Reference

- [Interaction with the CCT chaperonin complex limits APOBEC3A cytidine deaminase cytotoxicity.](#)

Abby M Green, Rachel A DeWeerd, David R O'Leary, Ava R Hansen, Katharina E Hayer, Katarzyna Kulej, Ariel S Dineen, Julia H Szeto, Benjamin A Garcia, Matthew D Weitzman.

EMBO reports 2021 Sep; 22(9):e52145.

Application: IP, WB-Tr, Human, CEM, HEK 293T, HepaRG, K-562, MDA-MB-231, Ramos, U-2 OS cells

- [TRiC controls transcription resumption after UV damage by regulating Cockayne syndrome protein A.](#)

Pines A, Dijk M, Makowski M, Meulenbroek EM, Vrouwe MG, van der Weegen Y, Baltissen M, French PJ, van Royen ME, Luijsterburg MS, Mullenders LH, Vermeulen M, Vermeulen W, Pannu NS, van Attikum H.

Nature Communications 2018 Mar; 9(1):1040.

Application: WB, Human, VH10-hTert cells

- [BBS6, BBS10, and BBS12 form a complex with CCT/TRiC family chaperonins and mediate BBSome assembly.](#)

Seo S, Baye LM, Schulz NP, Beck JS, Zhang Q, Slusarski DC, Sheffield VC.

PNAS 2010 Jan; 107(4):1488.

Application: IF, WB-Ti, WB-Tr, Human, Mouse, ARPE-19 cells, Eyes, HEK 293T cells, Testes

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)

- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Schizophrenia](#)