TCP1 Monoclonal Antibody (91A)

Product Details	
Size	100 µL
Species Reactivity	Dog, Chicken, Hamster, Human, Mouse, Non-human primate, Rat, Yeast
Published Species	Mouse
Host/Isotype	Rat / IgG2a
Class	Monoclonal
Type	Antibody
Clone	91A
Conjugate	Unconjugated
Immunogen	Bacterially expressed fragment of mouse TCP-1, residues 306-556.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2303275

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20	-
Immunocytochemistry (ICC/IF)	1:100	-
Flow Cytometry (Flow)	1/100	-
Immunoprecipitation (IP)	Assay-dependent	1 Publication

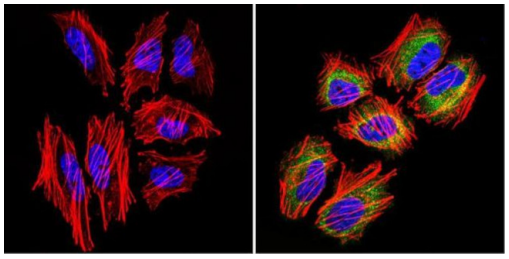
Product Specific Information

MA3-026 detects T Complex Polypeptide 1 (TCP-1) from human, canine, chicken, hamster, mouse, primate, rat and yeast samples.

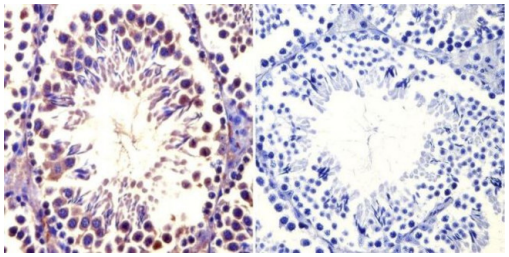
MA3-026 has been successfully used in Western blot, immunofluorescence and immunoprecipitation procedures. By Western blot, this clone detects a ~57 kDa band representing TCP-1 in mouse 3T3 cells. Immunofluorescence staining of TCP-1 in mouse germ line cells with MA3-026 results in diffuse cytoplasmic staining.

The MA3-026 immunizing peptide corresponds to amino acid residues 306-556 from mouse TCP-1. The epitope for this antibody has been mapped to amino acids 465-469 representing the pentamer peptide AKLRA.

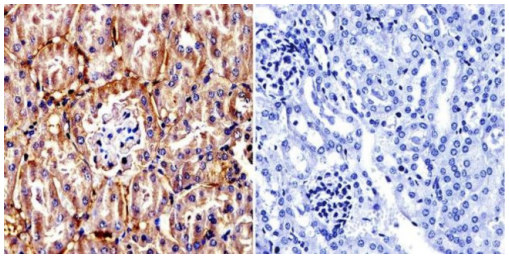
Product Images For TCP1 Monoclonal Antibody (91A)



TCP1 Antibody (MA3-026) in ICC/IF
Immunofluorescent analysis of TCP1 (green) in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes at room temperature and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a TCP1 Monclonal Antibody (91A) (Product # MA3-026) at a dilution of 1:100 and incubated overnight in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody for 45 minutes at room temperature in the dark. F-actin (red) was stained with a fluorescent phalloidin and nuclei (blue) were stained with DAPI. Images were taken at a 60X magnification.



TCP1 Antibody (MA3-026) in IHC (P)
Immunohistochemistry was performed on normal biopsies of deparaffinized mouse testis tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:20 with a Rat Monoclonal Antibody recognizing TCP1 (Product # MA3-026) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



TCP1 Antibody (MA3-026) in IHC (P)
Immunohistochemistry was performed on normal biopsies of deparaffinized mouse kidney tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:20 with a Rat Monoclonal Antibody recognizing TCP1 (Product # MA3-026) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.

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4 References

Western Blot (3)

Nature communications

Direct control of lysosomal catabolic activity by mTORC1 through regulation of V-ATPase assembly.

"MA3-026 was used in Western Blotting to show that mTORC1 blocks lysosomal degradation of extracellular proteins by suppressing V-ATPase-mediated acidification of lysosomes."

Authors: Ratto E,Chowdhury SR,Siefert NS,Schneider M,Wittmann M,Helm D,Palm W

Year
2022

Species
Mouse

Dilution
1:1000

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iScience

-catenin links cell seeding density to global gene expression during mouse embryonic stem cell differentiation.

"MA3-026 was used in Western Blot to provide new insights into the previously neglected but pervasive phenomenon of density-dependent gene regulation."

Authors: LeBlanc L,Kim M,Kambhampati A,Son AJ,Ramirez N,Kim J

Year
2022

Species
Mouse

Dilution
1:2000

View more WB references on thermofisher.com

Immunoprecipitation (1)

Current biology : CB

Identification of six Tcp-1-related genes encoding divergent subunits of the TCP-1-containing chaperonin.

"MA3-026 was used in immunoprecipitation to characterize different subunits of CCT chaperonin"

Authors: Kubota H,Hynes G,Carne A,Ashworth A,Willison K

Year
1994

Species
Mouse