Website: thermofisher.com
Customer Service (US): 1 800 955 6288 ext. 1
Technical Support (US): 1 800 955 6288 ext. 441
thermofisher.com/contactus

Performance guaranteed

PLZF Monoclonal Antibody (5B3)

Catalog Number MA5-15667

Product data sheet

Details	
Size	100 µL
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	5B3
Immunogen	Purified recombinant fragment of human ZBTB16 expressed in E. Coli.
Conjugate	Unconjugated
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.03% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Species Reactivity	
Species reactivity	Human
Published species	Mouse, Human

Tested Applications	Dilution *
ELISA (ELISA)	1:10,000
Western Blot (WB)	1:500-1:2,000
Immunocytochemistry (ICC/IF)	1:200-1:1,000

Published Applications	
Immunohistochemistry (IHC)	See 1 publications below
Western Blot (WB)	See 1 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

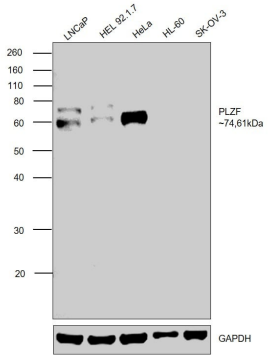
MA5-15667 targets ZBTB16 in indirect ELISA, IF and WB applications and shows reactivity with Human samples. The MA5-15667 immunogen is purified recombinant fragment of human ZBTB16 expressed in E. Coli. . MA5-15667 detects ZBTB16 which has a predicted molecular weight of approximately 74kDa.

Background/Target Information

This gene is a member of the Krueppel C2H2-type zinc-finger protein family and encodes a zinc finger transcription factor that contains nine Kruppel-type zinc finger domains at the carboxyl terminus. This protein is located in the nucleus, is involved in cell cycle progression, and interacts with a histone deacetylase. Specific instances of aberrant gene rearrangement at this locus have been associated with acute promyelocytic leukemia (APL). Alternate transcriptional splice variants have been characterized.

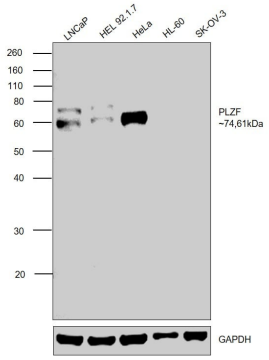
For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Product Images For PLZF Monoclonal Antibody (5B3)



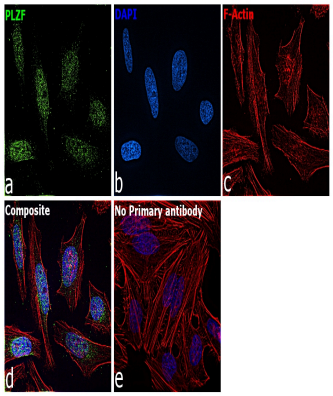
PLZF Antibody (MA5-15667) in WB

Western blot was performed using Anti-PLZF Monoclonal Antibody (5B3)(Product # MA5-15667) and bands at 74kDa and 61kDa corresponding to PLZF was observed in LNCaP, HEL 92.1.7 and HeLa, but not in HL-60 and SK-OV-3. Nuclear enriched extracts (30 µg lysate) of LNCaP (Lane 1), HEL 92.1.7 (Lane 2), HeLa (Lane 3), HL-60 (Lane 4), SK-O-V3 (Lane 5) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1/1000) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).



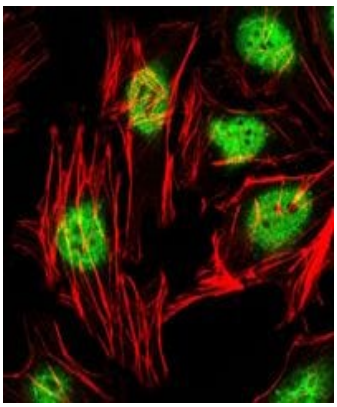
PLZF Antibody (MA5-15667)

Antibody specificity was demonstrated by detection of differential basal expression of the target across the tested cell lines owing to their inherent genetic constitution. Relative expression of PLZF was observed in LNCaP, HEL 92.1.7 and HeLa, but not in HL-60 and SK-OV-3 using Anti-PLZF Monoclonal Antibody (5B3) (Product # MA5-15667) in Western Blot. {RE}



PLZF Antibody (MA5-15667) in ICC/IF

Immunofluorescence analysis of PLZF was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with PLZF Monoclonal Antibody (5B3) (Product # MA5-15667) at 1:200 in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766), (1:2000), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

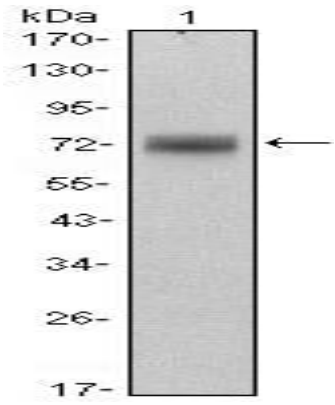


PLZF Antibody (MA5-15667) in ICC/IF

Immunofluorescence analysis of HeLa cells using ZBTB16 monoclonal antibody (Product # MA5-15667) (Green). Red: actin filaments have been labeled with phalloidin.

Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61105 USA

thermofisher.com/contactus



PLZF Antibody (MA5-15667) in WB

Western blot analysis of ZBTB16 using ZBTB16 monoclonal antibody (Product # MA5-15667) in HeLa (1) cell lysate.

Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61105 USA

thermofisher.com/contactus

PubMed References For PLZF Monoclonal Antibody (5B3)

1 Immunohistochemistry References

Species / Dilution	Summary
	MA5-15667 was used in Immunohistochemistry to demonstrate that, besides determining sex, Sry also plays an important role in spermatogenesis as a circular RNA.
Mouse / 1:200	Life science alliance (2023; 6:) **"Loss of circSRY reduces H2AX level in germ cells and impairs mouse spermatogenesis."** Author(s):Song Y,Chen M,Zhang Y,Li J,Liu B,Li N,Chen M,Qiao M,Wang N,Cao Y,Lu S,Chen J,Sun W,Gao F,Wang H PubMed Article URL:http://dx.doi.org/10.26508/lsa.202201617

1 Western Blot References

Species / Dilution	Summary
	MA5-15667 was used in Western Blotting to show that the marked response of particular target genes in endothelial cells to cortisol, such as ZBTB16, warrants further investigation into their potential role in the pathophysiology of CSC and other vascular conditions.
Human / 1:2500	The Journal of clinical endocrinology and metabolism (2022; 107: 512) **"The Cortisol Response of Male and Female Choroidal Endothelial Cells: Implications for Central Serous Chorioretinopathy."** Author(s):Brinks J,van Dijk EHC,Kiebasa SM,Mei H,van der Veen I,Peters HAB,Sips HCM,Notenboom RGE,Quax PHA,Boon CJF,Meijer OC PubMed Article URL:http://dx.doi.org/10.1210/clinem/dgab670

Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61105 USA

thermofisher.com/contactus