

## Anti-Plzf/ZBTB16 Antibody Picoband®

Catalog Number: PB9969

### About ZBTB16

Zinc finger and BTB domain-containing protein 16 is a protein that in humans is encoded by the ZBTB16 gene. 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.

### Overview

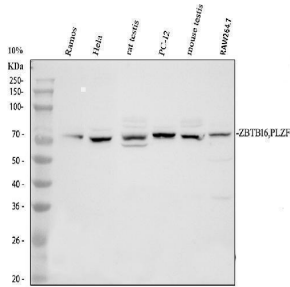
Product Name	Anti-Plzf/ZBTB16 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Plzf/ZBTB16 Antibody Picoband® catalog # PB9969. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q05516

### Technical Details

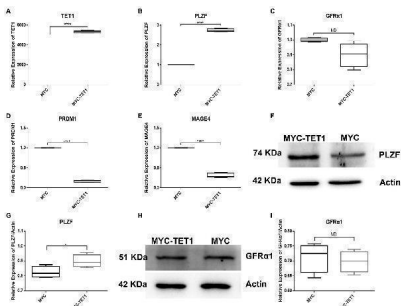
Immunogen	E.coli-derived human Plzf recombinant protein (Position: M1-E165).
Recommended Detection Systems	Boster recommends ECL Plus Western Blotting Substrate (Catalog # AR1196-200) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

## Anti-Plzf/ZBTB16 Antibody Picoband® (PB9969) Images



Western blot analysis of Plzf/ZBTB16 using anti-Plzf/ZBTB16 antibody (PB9969). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Ramos whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: rat testis tissue lysates, Lane 4: rat PC-12 whole cell lysates, Lane 5: mouse testis tissue lysates, Lane 6: mouse RAW264.7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Plzf/ZBTB16 antigen affinity purified polyclonal antibody (PB9969) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for Plzf/ZBTB16 at approximately 74 kDa. The expected band size for Plzf/ZBTB16 is at 74 kDa.



Relative expression of specific genes in spermatogonial cells. (A) The mRNA expression of TET1 in spermatogonial cells was detected by QRT-PCR. (B) The mRNA expression of PLZF in spermatogonial cells was detected by QRT-PCR. (C) The mRNA expression of GFRalpha1 in spermatogonial cells was detected by QRT-PCR. (D) The mRNA expression of PRDM1 in spermatogonial cells was detected by QRT-PCR. (E) The mRNA expression of MAGE4 in spermatogonial cells was detected by QRT-PCR. (F) The expression of PLZF in TET1 overexpressed cells was detected by Western Blot. (G) Quantification of PLZF protein levels in TET1 overexpressed cells. (H) The expression of GFRalpha1 in TET1 overexpressed cells was detected by Western Blot. (I) Quantification of GFRalpha1 protein levels in TET1 overexpressed cells. p

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**Biocompare PI:**  
PRODUCT INVESTIGATOR



Anti-Plzf/ZBTB16 Antibody

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