BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

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, Rat
Description	Boster Bio Anti-Plzf/ZBTB16 Antibody Picoband® catalog # PB9969. Tested in WB applications. This antibody reacts with Human, 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 antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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 Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins

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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, Rat

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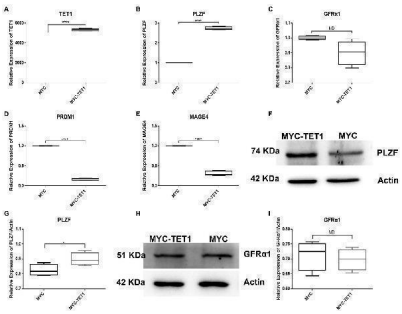
Anti-Plzf/ZBTB16 Antibody Picoband® (PB9969) Images

Western blot analysis of Plzf using anti-Plzf antibody (PB9969). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat ovary tissue lysates, Lane 2: SKOV3 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 antigen affinity purified polyclonal antibody (Catalog # 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Plzf at approximately 74 kDa. The expected band size for Plzf 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

Anti-Plzf/ZBTB16 Antibody

For Research Use Only. Not for use in diagnostic procedures.