

Rabbit Plzf/ZBTB16 Polyclonal Antibody | anti-ZBTB16 antibody

Anti-Plzf/ZBTB16 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125575	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

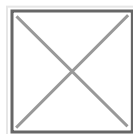
PRODUCT SYNONYMS

Plzf/ZBTB16; Polyclonal Antibody; Anti-Plzf/ZBTB16 Antibody; ZBTB16; PLZF; ZNF145; Zinc finger and BTB domain-containing protein 16; Promyelocytic leukemia zinc finger protein; Zinc finger protein 145; Zinc finger protein PLZF; zinc finger and BTB domain containing 16; anti-ZBTB16 antibody

PRODUCT SPECIFICATIONS

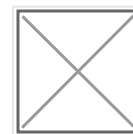
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Plzf/ZBTB16 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-ZBTB16 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Plzf/ZBTB16 recombinant protein (Position: K23-V673).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of 293T cells using anti-Plzf/ZBTB16 antibody (AAA125575). Overlay histogram showing 293T cells stained with AAA125575 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Plzf/ZBTB16 Antibody (AAA125575, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of Plzf/ZBTB16 using anti-Plzf/ZBTB16 antibody (AAA125575). Plzf/ZBTB16 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti-Plzf/ZBTB16 Antibody (AAA125575) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of Plzf/ZBTB1 using Plzf/ZBTB1 antibody (AAA125575). 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 50ug of sample under reducing conditions. Lane 1: human HL-60 whole cell lysates Lane 2: human HEK293 whole cell lysates Lane 3: human THP-1 whole cell lysates Lane 4: human Hela whole cell lysates Lane 5: human Raji whole cell lysates Lane 6: human K562 whole cell lysates Lane 7: rat spleen tissue lysates Lane 8: mouse Raw264. 7 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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/ZBTB1 antigen affinity purified polyclonal antibody (Catalog # AAA125575) at 0. 25 μg/mL overnight at 4 degree 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 with Tanon 5200 system. A specific band was detected for Plzf/ZBTB1 at approximately 74KD. The expected band size for Plzf/ZBTB1 is at 74KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ZBTB16 antibody	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.
References	<div>1. Kovalovsky D, Uche OU, Eladad S, Hobbs RM, Yi W, Alonzo E, Chua K, Eidson M, et al. (2008). "The BTB-zinc finger transcriptional regulator, PLZF, controls the development of iNKT cell effector functions". Nature Immunology 9 (9): 1055-64.</div> <div>2. Savage AK, Constantinides MG, Han J, Picard D, Martin E, Li B, Lantz O, Bendelac A (2008). "The transcription factor PLZF (Zbtb16) directs the effector program of the NKT cell lineage". Immunity 29 (3): 391-403.</div> <div>3. Zhang T, Xiong H, Kan LX, Zhang CK, Jiao XF, Fu G, Zhang QH, Lu L, et al. (1999). "Genomic sequence, structural organization, molecular evolution, and aberrant rearrangement of promyelocytic leukemia zinc finger gene". Proceedings of the National Academy of Sciences of the United States of America 96 (20): 11422-7.</div>

NCBI AND UNIPROT INFORMATION

NCBI GI #	66932932
NCBI GeneID	7704
NCBI Accession #	NP_001018011.1
NCBI GenBank Nucleotide #	NM_001018011.1
UniProt Accession #	Q05516; Q8TAL4
Molecular Weight	61,601 Da
NCBI Official Full Name	zinc finger and BTB domain-containing protein 16
NCBI Official Synonym Full Names	zinc finger and BTB domain containing 16
NCBI Official Symbol	ZBTB16
NCBI Official Synonym Symbols	PLZF; ZNF145
NCBI Protein Information	zinc finger and BTB domain-containing protein 16
UniProt Protein Name	Zinc finger and BTB domain-containing protein 16
UniProt Gene Name	ZBTB16

UniProt Synonym Gene Names	PLZF; ZNF145
UniProt Entry Name	ZBT16_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/plzf-zbtb16-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125575>