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

Anti-ZC3H7A Antibody Picoband™

Catalog Number: A15075-1

About ZC3H7A

ZC3H7A (Zinc Finger CCCH-Type Containing 7A, also known as ZC3H7; HSPC055; ZC3HDC7), a member of CCCH gene family, is located on human chromosome 16p13.13. ZC3H7A is associated with some diseases, including Endometrial Stromal Tumor and Endometrial Stromal Sarcoma. An important paralog of this gene is ZC3H7B. The CCCH zinc finger motif has been found in proteins from organisms ranging from man to yeast. The CCCH proteins are a large family of zinc finger containing C3H-type motifs and much evidences proved that they may be RNA-binding proteins functioning in RNA processing. In mouse, tristetraprolin, a protein containing two CCCH zinc fingers, binds directly to AU-rich elements within the 3'-untranslated region of target transcripts to facilitate mRNA degradation. Zfp36l2, like its better-known relative TTP, is a mRNA-binding and destabilizing protein, functions in the physiological control of female fertility at the level of early embryonic development. The PIE-1 is an essential regulator of Caenorhabditis elegans germ cell fate that segregates with the germ lineage by inhibition of transcription or activation of protein expression from maternal RNAs.

Overview

Product Name	Anti-ZC3H7A Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-ZC3H7A Antibody Picoband™ catalog # A15075-1. Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q8IWR0

Technical Details

Immunogen	E.coli-derived human ZC3H7A recombinant protein (Position: Q13-R717).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

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Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.25-0.5 ug/ml, Human Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human Flow Cytometry, 1-3 ug/1x10^6 cells, Human Direct ELISA, 0.1-0.5 ug/ml, Human

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Anti-ZC3H7A Antibody Picoband™ (A15075-1) Images

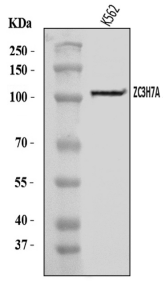

Figure 1. Western blot analysis of ZC3H7A using anti-ZC3H7A antibody (A15075-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human K562 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-ZC3H7A antigen affinity purified polyclonal antibody (Catalog # A15075-1) 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 ZC3H7A at approximately 111 kDa. The expected band size for ZC3H7A is at 111 kDa.

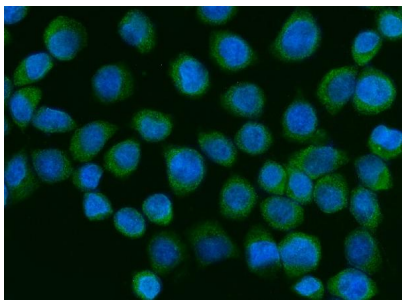

Figure 2. IF analysis of ZC3H7A using anti-ZC3H7A antibody (A15075-1).
ZC3H7A was detected in an immunocytochemical section of SiHa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ZC3H7A Antibody (A15075-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

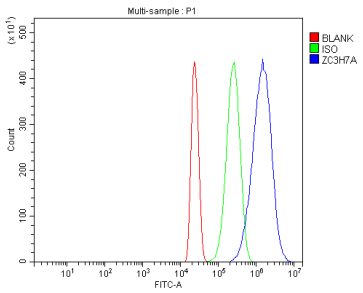

Figure 3. Flow Cytometry analysis of HL-60 cells using anti-ZC3H7A antibody (A15075-1).
Overlay histogram showing HL-60 cells stained with A15075-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ZC3H7A Antibody (A15075-1, 1 ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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