

Anti-DNMT2/TRDMT1 Antibody Picoband®

Catalog Number: A06504-1

About TRDMT1

Enables tRNA (cytidine-5-)-methyltransferase activity. Involved in tRNA methylation and tRNA stabilization. Predicted to be located in cytoplasm. Predicted to be active in nucleus. Is expressed in several structures, including central nervous system; genitourinary system; hemolymphoid system gland; olfactory epithelium; and thyroid gland. Orthologous to human TRDMT1 (tRNA aspartic acid methyltransferase 1).

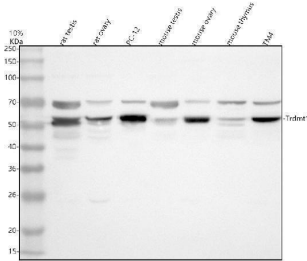
Overview

Product Name	Anti-DNMT2/TRDMT1 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-DNMT2/TRDMT1 Antibody Picoband® catalog # A06504-1. Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with 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	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	O55055

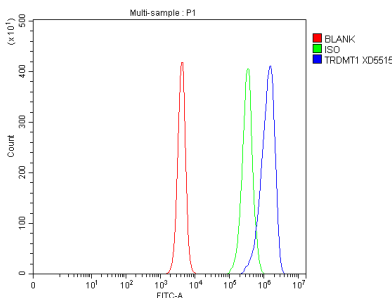
Technical Details

Immunogen	E.coli-derived mouse DNMT2/TRDMT1 recombinant protein (Position: M16-E391). Mouse DNMT2/TRDMT1 shares 80.6% and 88% amino acid (aa) sequence identity with human and rat DNMT2/TRDMT1, respectively.
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, 0.25-0.5 ug/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10 ⁶ cells, Mouse ELISA, 0.1-0.5 ug/ml

Anti-DNMT2/TRDMT1 Antibody Picoband® (A06504-1) Images



Western blot analysis of DNMT2/TRDMT1 using anti-DNMT2/TRDMT1 antibody (A06504-1). 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: rat testis tissue lysates, Lane 2: rat ovary tissue lysates, Lane 3: rat PC-12 whole cell lysates, Lane 4: mouse testis tissue lysates, Lane 5: mouse ovary tissue lysates, Lane 6: mouse thymus tissue lysates, Lane 7: mouse TM4 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-DNMT2/TRDMT1 antigen affinity purified polyclonal antibody (A06504-1) 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for DNMT2/TRDMT1 at approximately 55 kDa. The expected band size for DNMT2/TRDMT1 is at 45 kDa.



Flow Cytometry analysis of RM-1 cells using anti-DNMT2/TRDMT1 antibody (A06504-1). Overlay histogram showing RM-1 cells stained with A06504-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DNMT2/TRDMT1 Antibody (A06504-1, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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Anti-DNMT2/TRDMT1 Antibody

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