

## Anti-MEIOB Antibody Picoband®

Catalog Number: A13211-2

### About MEIOB

Predicted to enable chromatin binding activity; single-stranded DNA 3'-5' exodeoxyribonuclease activity; and single-stranded DNA binding activity. Predicted to be involved in double-strand break repair via homologous recombination; fertilization; and meiotic nuclear division. Predicted to be located in cytoplasm. Implicated in spermatogenic failure 22.

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## Overview

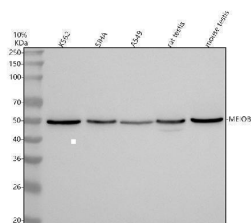
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-MEIOB Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Description          | Boster Bio Anti-MEIOB Antibody Picoband® catalog # A13211-2. Tested in WB, ICC/IF, Flow Cytometry, ELISA 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          | ELISA, Flow Cytometry, IF, ICC, WB                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                                                             |
| 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           | Q8N635                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Technical Details

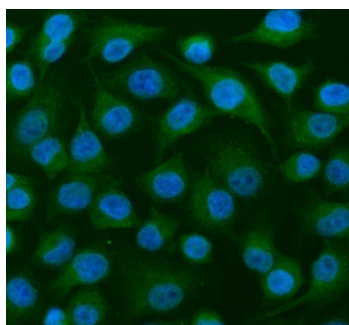
|                               |                                                                                                                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | E.coli-derived human MEIOB recombinant protein (Position: I140-V442). Human MEIOB shares 77.9% and 76.1% amino acid (aa) sequence identity with mouse and rat MEIOB, respectively. |
| 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.      |

|                     |                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form                | Lyophilized                                                                                                                                                                                                                                                                                                                                                     |
| Concentration       | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                                                                                       |
| Purification        | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                    |
| Suggested Dilutions | <p>Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat<br/> Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human<br/> Flow Cytometry (Fixed), 1-3 ug/1x10<sup>6</sup> cells, Human<br/> ELISA, 0.1-0.5 ug/ml, Human</p> <p>Note: For flow cytometry (FCM), validated for fixed cells only. Not validated for FACS or surface flow cytometry using live cells.</p> |

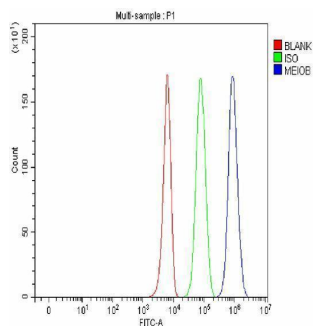
## Anti-MEIOB Antibody Picoband® (A13211-2) Images



Western blot analysis of MEIOB using anti-MEIOB antibody (A13211-2). 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, Lane 2: human SiHa whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: rat testis tissue lysates, Lane 5: mouse testis tissue 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-MEIOB antigen affinity purified polyclonal antibody (Catalog # A13211-2) 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 MEIOB at approximately 49 kDa. The expected band size for MEIOB is at 49 kDa.



IF analysis of MEIOB using anti-MEIOB antibody (A13211-2). MEIOB was detected in an immunocytochemical section of A549 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-MEIOB Antibody (A13211-2) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 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.



Flow Cytometry analysis of K562 cells using anti-MEIOB antibody (A13211-2). Overlay histogram showing K562 cells stained with A13211-2 (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-MEIOB Antibody (A13211-2, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Anti-MEIOB Antibody

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