

## Anti-PDS5B Antibody Picoband®

Catalog Number: A04823-1

### About PDS5B

Sister chromatid cohesion protein PDS5 homolog B (PDS5B) is a protein that in humans is encoded by the PDS5B gene. This gene encodes a protein that interacts with the conserved protein complex termed cohesin. The cohesin complex holds together sister chromatids and facilitates accurate chromosome segregation during mitosis and meiosis. This protein is also a negative regulator of cell proliferation and may be a tumor-suppressor gene.

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### Overview

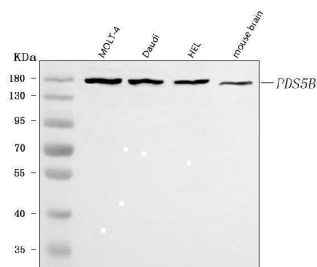
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-PDS5B Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reactive Species     | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Description          | Boster Bio Anti-PDS5B Antibody Picoband® catalog # A04823-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse. 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 <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           | Q9NTI5                                                                                                                                                                                                                                                                                                                                                                                                                                   |

### Technical Details

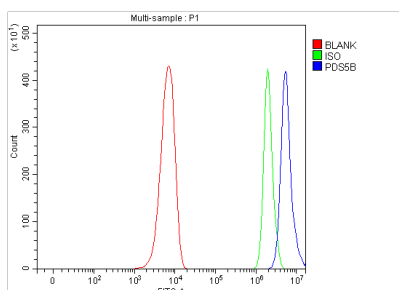
|                               |                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------|
| Immunogen                     | E.coli-derived human PDS5B recombinant protein (Position: Q499-Q1424).                          |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |

|                     |                                                                                                                                                                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cross Reactivity    | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                   |
| Isotype             | Rabbit IgG                                                                                                                                                                                                                                                                                 |
| Form                | Lyophilized                                                                                                                                                                                                                                                                                |
| Concentration       | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.                                                                                                                                                                                                                  |
| Purification        | Immunogen affinity purified.                                                                                                                                                                                                                                                               |
| Suggested Dilutions | <p>Western blot, 0.1-0.25 ug/ml, Human, Mouse<br/>Flow Cytometry (Fixed), 1-3 ug/1x1x10<sup>6</sup> cells, Human<br/>ELISA, 0.1-0.5 ug/ml, -</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-PDS5B Antibody Picoband® (A04823-1) Images



Western blot analysis of PDS5B using anti-PDS5B antibody (A04823-1). 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 MOLT-4 whole cell lysates, Lane 2: human Daudi whole cell lysates, Lane 3: human HEL whole cell lysates, Lane 4: mouse brain 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-PDS5B antigen affinity purified polyclonal antibody (Catalog # A04823-1) at 0.25 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 PDS5B at approximately 170 kDa. The expected band size for PDS5B is at 165 kDa.



Flow Cytometry analysis of PC-3 cells using anti-PDS5B antibody (A04823-1). Overlay histogram showing PC-3 cells stained with A04823-1 (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-PDS5B Antibody (A04823-1, 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 (Red line) was also used as a control.

### Anti-PDS5B Antibody

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