

## Anti-WIPF1 Antibody Picoband™

Catalog Number: A04501-2

### About WIPF1

WAS/WASL-interacting protein (WIP) is a protein that in humans is encoded by the WIPF1 gene. This gene encodes a protein that plays an important role in the organization of the actin cytoskeleton. The encoded protein binds to a region of Wiskott-Aldrich syndrome protein that is frequently mutated in Wiskott-Aldrich syndrome, an X-linked recessive disorder. Impairment of the interaction between these two proteins may contribute to the disease. Two transcript variants encoding the same protein have been identified for this gene.

### Overview

|                      |                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-WIPF1 Antibody Picoband™                                                                                                                                                                     |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                                 |
| Description          | Boster Bio Anti-WIPF1 Antibody Picoband™ catalog # A04501-2. Tested in Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat.                                              |
| Application          | 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           | O43516                                                                                                                                                                                            |

### Technical Details

|                               |                                                                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | A synthetic peptide corresponding to a sequence at the C-terminus of human WIPF1, which shares 95% amino acid (aa) sequence identity with mouse and rat WIPF1. |
| 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**

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 µg/ml, Human, Mouse, Rat

Flow Cytometry, 1-3 µg/1x10<sup>6</sup> cells, Human

## Anti-WIPF1 Antibody Picoband™ (A04501-2) Images

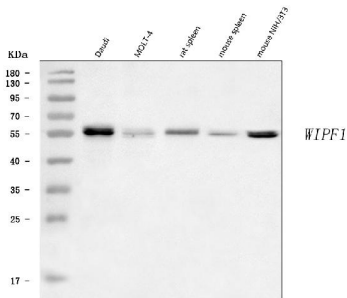


Figure 1. Western blot analysis of WIPF1 using anti-WIPF1 antibody (A04501-2).

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 Daudi whole cell lysates,  
Lane 2: human MOLT-4 whole cell lysates,  
Lane 3: rat spleen tissue lysates,  
Lane 4: mouse spleen tissue lysates,  
Lane 5: mouse NIH/3T3 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-WIPF1 antigen affinity purified polyclonal antibody (Catalog # A04501-2) 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 WIPF1 at approximately 56 kDa. The expected band size for WIPF1 is at 51 kDa.

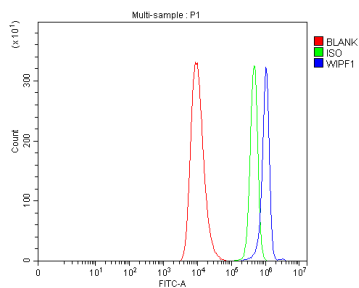


Figure 2. Flow Cytometry analysis of HEL cells using anti-WIPF1 antibody (A04501-2).

Overlay histogram showing HEL cells stained with A04501-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-WIPF1 Antibody (A04501-2, 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 (Red line) was also used as a control.

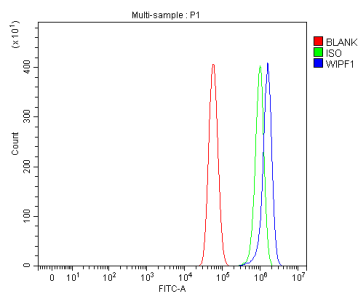


Figure 3. Flow Cytometry analysis of U87 cells using anti-WIPF1 antibody (A04501-2).

Overlay histogram showing U87 cells stained with A04501-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-WIPF1 Antibody (A04501-2, 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 (Red line) was also used as a control.

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