

## Anti-TRIF/TICAM1 Antibody Picoband™

Catalog Number: A01872-1

### About TICAM1

TICAM1 (TIR DOMAIN-CONTAINING ADAPTOR MOLECULE 1), also known as TRIF, is an adapter in responding to activation of toll-like receptors (TLRs). It mediates the rather delayed cascade of two TLR-associated signaling cascades, where the other one is dependent upon a MyD88 adapter. By genomic sequence analysis, Oshiumi et al. (2003) mapped the TICAM1 gene to chromosome 19p13.3. By coimmunoprecipitation analysis, Oshiumi et al. (2003) showed that TICAM1 interacts specifically with TLR3, but not with other TLRs. Functional analysis showed that the association of TLR3 and TICAM1 mediates dsRNA activation of IFNB, through NFKB, AP1, or IRF3. TICAM1 activation of NFKB was found to occur predominantly through IRAK1 rather than IRAK2. Small interfering (si)RNA blockage of TICAM1, just upstream of the TIR domain, reduced IFNB production in response to dsRNA.

### Overview

|                      |                                                                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-TRIF/TICAM1 Antibody Picoband™                                                                                                                                                                   |
| Reactive Species     | Human                                                                                                                                                                                                 |
| Description          | Boster Bio Anti-TRIF/TICAM1 Antibody Picoband™ catalog # A01872-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human.                                                 |
| Application          | ELISA, Flow Cytometry, WB                                                                                                                                                                             |
| Clonality            | Polyclonal                                                                                                                                                                                            |
| Formulation          | Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.                                                                                                                                       |
| Storage Instructions | Store 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 freeze-thaw cycles. |
| Host                 | Rabbit                                                                                                                                                                                                |
| Uniprot ID           | Q8IUC6                                                                                                                                                                                                |

### Technical Details

|                               |                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------|
| Immunogen                     | E.coli-derived human TRIF/TICAM1 recombinant protein (Position: S385-H448).                     |
| Predicted Reactive Species    | Human                                                                                           |
| 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 ug/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Purification        | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.25-0.5ug/ml, Human</p> <p>Flow Cytometry, 1-3ug/1x10<sup>6</sup> cells, Human</p> <p>Direct ELISA, 0.1-0.5ug/ml, Human</p> |

## Anti-TRIF/TICAM1 Antibody Picoband™ (A01872-1) Images

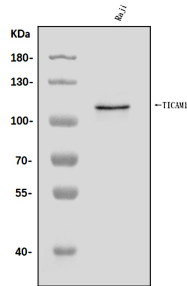


Figure 1. Western blot analysis of TRIF/TICAM1 using anti-TRIF/TICAM1 antibody (A01872-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: human Raji whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-TRIF/TICAM1 antigen affinity purified polyclonal antibody (Catalog # A01872-1) 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 TRIF/TICAM1 at approximately 110KD. The expected band size for TRIF/TICAM1 is at 76KD.

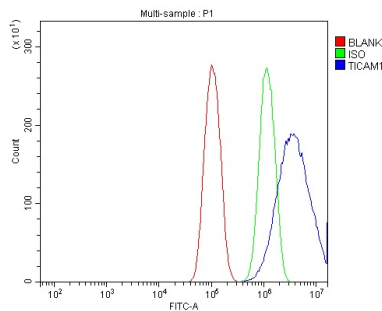


Figure 2. Flow Cytometry analysis of PC-3 cells using anti-TRIF/TICAM1 antibody (A01872-1). Overlay histogram showing PC-3 cells stained with A01872-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TRIF/TICAM1 Antibody (A01872-1, 1ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

## 1 Publications Citing This Product

1. PubMed ID: , ALK is a therapeutic target for lethal sepsis

Visit [bosterbio.com/anti-trif-ticam1-picoband-trade-antibody-a01872-1-boster.html](http://bosterbio.com/anti-trif-ticam1-picoband-trade-antibody-a01872-1-boster.html) to see all 1 publications.

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