

## Anti-TAB1 Antibody Picoband®

Catalog Number: A02847-1

### About TAB1

Mitogen-activated protein kinase kinase kinase 7-interacting protein 1, also called TAB1, is an enzyme that in humans is encoded by the MAP3K7IP1 gene. It is mapped to 22q13.1. The protein encoded by this gene was identified as a regulator of the MAP kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways. This protein can interact with and activate the mitogen-activated protein kinase 14 (MAPK14/p38alpha), and thus represents an alternative activation pathway, in addition to the MAPKK pathways, which contributes to the biological responses of MAPK14 to various stimuli. TAB1 also can activate the kinase activity of TAK1 by direct interaction, and it may be an important signaling intermediate between TGF $\beta$  receptors and TAK1. What's more, TAB1 plays an important role in skin homeostasis, wound repair, and oncogenesis.

### Overview

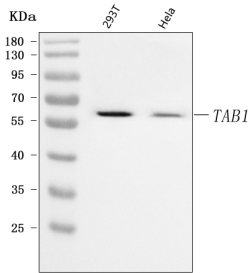
|                      |  |
|----------------------|--|
| Product Name         | Anti-TAB1 Antibody Picoband®   |
| Reactive Species     | Human  |
| Description          | Boster Bio Anti-TAB1 Antibody Picoband® catalog # A02847-1. Tested in ELISA, WB applications. This antibody reacts with Human. The 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, 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           | Q15750   |

### Technical Details

|                               |   |
|-------------------------------|---|
| Immunogen                     | E.coli-derived human TAB1 recombinant protein (Position: R5-A329).                              |
| 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 | Western blot, 0.25-0.5 ug/ml, Human<br>ELISA, 0.1-0.5 ug/ml, -            |

## Anti-TAB1 Antibody Picoband® (A02847-1) Images



Western blot analysis of TAB1 using anti-TAB1 antibody (A02847-1). 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 293T whole cell lysates, Lane 2: human HeLa 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-TAB1 antigen affinity purified polyclonal antibody (Catalog # A02847-1) 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 TAB1 at approximately 55-65 kDa. The expected band size for TAB1 is at 55 kDa.

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### Anti-TAB1 Antibody

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