

## Anti-RHBDF2 Antibody Picoband®

Catalog Number: A07693-1

### About RHBDF2

Rhomboid family member 2 is a protein that in humans is encoded by the RHBDF2 gene. Predicted to enable protein transporter activity. Predicted to be involved in negative regulation of protein secretion and regulation of epidermal growth factor receptor signaling pathway. Located in plasma membrane. Implicated in palmoplantar keratoderma-esophageal carcinoma syndrome.

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### Overview

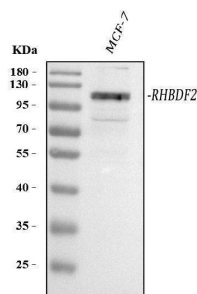
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-RHBDF2 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                     |
| Reactive Species     | Human                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Description          | Boster Bio Anti-RHBDF2 Antibody Picoband® catalog # A07693-1. Tested in ELISA, Flow Cytometry, 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, 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           | Q6PJF5                                                                                                                                                                                                                                                                                                                                                                                                                             |

### Technical Details

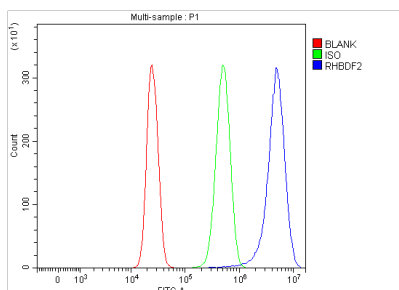
|                               |                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------|
| Immunogen                     | E.coli-derived human RHBDF2 recombinant protein (Position: H145-D529).                          |
| 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, 0.25-0.5 ug/ml, Human<br/>Flow Cytometry (Fixed), 1-3 ug/1x10<sup>6</sup> cells, Human<br/>ELISA, 0.1-0.5 ug/ml, -</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-RHBDF2 Antibody Picoband® (A07693-1) Images



Western blot analysis of RHBDF2 using anti-RHBDF2 antibody (A07693-1). 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 MCF-7 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-RHBDF2 antigen affinity purified polyclonal antibody (Catalog # A07693-1) 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 RHBDF2 at approximately 97 kDa. The expected band size for RHBDF2 is at 97 kDa.



Flow Cytometry analysis of HepG2 cells using anti-RHBDF2 antibody (A07693-1). Overlay histogram showing HepG2 cells stained with A07693-1 (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-RHBDF2 Antibody (A07693-1, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

### Anti-RHBDF2 Antibody

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