

## Anti-Zebrafish HSPB1 Antibody Picoband®

Catalog Number: AZA4VAK4

### About HSPB1

Predicted to enable unfolded protein binding activity. Acts upstream of or within regulation of myofibril size; response to arsenic-containing substance; and response to heat. Located in cytoplasm and nucleus. Is expressed in several structures, including mesoderm; musculature system; nervous system; pericardial region; and pleuroperitoneal region. Human ortholog(s) of this gene implicated in Charcot-Marie-Tooth disease axonal type 2F; autosomal dominant distal hereditary motor neuronopathy 3; pancreatic cancer; and sarcoma. Orthologous to human HSPB1 (heat shock protein family B (small) member 1).

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### Overview

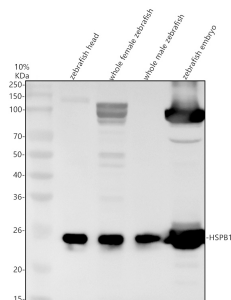
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Zebrafish HSPB1 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                  |
| Reactive Species     | Zebrafish                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description          | Boster Bio Anti-Zebrafish HSPB1 Antibody Picoband® catalog # AZA4VAK4. Tested in WB applications. This antibody reacts with Zebrafish. 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          | 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           | A4VAK4                                                                                                                                                                                                                                                                                                                                                                                                                   |

### Technical Details

|           |                                                                         |
|-----------|-------------------------------------------------------------------------|
| Immunogen | E.coli-derived Zebrafish HSPB1 recombinant protein (Position: M1-K199). |
| Form      | Lyophilized                                                             |

|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| Concentration       | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification        | Immunogen affinity purified.                                              |
| Suggested Dilutions | Western blot, 0.25-0.5 ug/ml, Zebrafish                                   |

## Anti-Zebrafish HSPB1 Antibody Picoband® (AZA4VAK4) Images



Western blot analysis of HSPB1 using anti-HSPB1 antibody (AZA4VAK4). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: zebrafish head tissue lysates, Lane 2: whole female zebrafish tissue lysates, Lane 3: whole male zebrafish tissue lysates, Lane 4: zebrafish embryo 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-HSPB1 antigen affinity purified polyclonal antibody (AZA4VAK4) 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for HSPB1 at approximately 22 kDa. The expected band size for HSPB1 is at 22 kDa.

### Anti-Zebrafish HSPB1 Antibody

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