

# Anti-HSPB2 Antibody

Catalog # ABO11110

## Product Information

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|                          |                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-F, ICC                                                                                                                |
| <b>Primary Accession</b> | <a href="#">Q16082</a>                                                                                                        |
| <b>Host</b>              | Rabbit                                                                                                                        |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                                             |
| <b>Clonality</b>         | Polyclonal                                                                                                                    |
| <b>Format</b>            | Lyophilized                                                                                                                   |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Heat shock protein beta-2(HSPB2) detection. Tested with WB, IHC-F, ICC in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                          |

## Additional Information

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|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 3316                                                                                                                                                                                          |
| <b>Other Names</b>              | Heat shock protein beta-2, HspB2, DMPK-binding protein, MKBP, HSPB2                                                                                                                           |
| <b>Calculated MW</b>            | 20233                                                                                                                                                                                         |
| <b>Application Details</b>      | Western blot, 0.1-0.5 $\mu$ g/ml, Human, Rat, Mouse<br>Immunohistochemistry(Frozen Section), 0.5-1 $\mu$ g/ml, Rat, Human, Mouse<br>Immunocytochemistry , 0.5-1 $\mu$ g/ml, Human, Mouse, Rat |
| <b>Subcellular Localization</b> | Cytoplasm . Nucleus . Localizes to nuclear foci.                                                                                                                                              |
| <b>Tissue Specificity</b>       | Expressed preferentially in skeletal muscle and heart but not in the lens.                                                                                                                    |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                     |
| <b>Protein Name</b>             | Heat shock protein beta-2(HspB2)                                                                                                                                                              |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> N.                                                                 |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence in the middle region of human HSPB2(102-118aa RHPQRLDRHGFSREFC), identical to the related rat and mouse sequences.                            |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                  |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                                       |
| <b>Storage</b>                  | At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also                                                                                                          |

be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

## Sequence Similarities

Belongs to the small heat shock protein (HSP20) family.

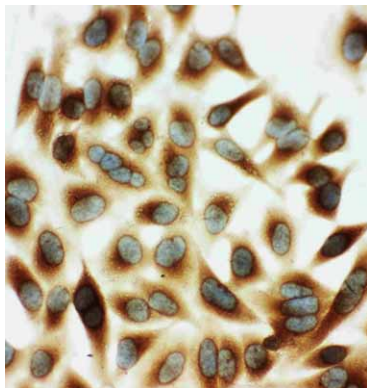
## Protein Information

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| Name              | HSPB2                                                                     |
| Function          | May regulate the kinase DMPK.                                             |
| Cellular Location | Cytoplasm. Nucleus. Note=Localizes to nuclear foci                        |
| Tissue Location   | Expressed preferentially in skeletal muscle and heart but not in the lens |

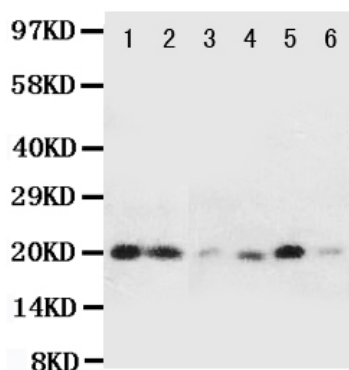
## Background

Alpha-B-crystallin is a member of the alpha-crystallin/small heat-shock protein(HSP) family and under various neuropathologic conditions accumulates in reactive astrocytes and degenerating neurons. In the 5-prime flanking region of the CRYAB gene on 11q22-q23, where a constitutive DNaseI hypersensitive site is located, Iwaki et al.(1997) identified a gene transcribed in the opposite direction. Analysis of its mRNA structure by RT-PCR and 5-prime/3-prime RACE revealed that this gene is composed of 2 exons and encodes a new member of the alpha-crystallin/hsp family. They termed the gene HSPB2. Iwaki et al.(1997) also determined the complete genomic structure of the rat homolog of HSPB2. Southern blot analysis demonstrated that HSPB2is expressed preferentially in skeletal muscle and heart but not in the lens, while the neighboring CRYAB gene is highly expressed in all 3 tissues. The 2 related genes are arranged in a head-to-head manner with an intergenic sequence of less than 1 kb, raising a possibility of shared regulatory elements for their expression.

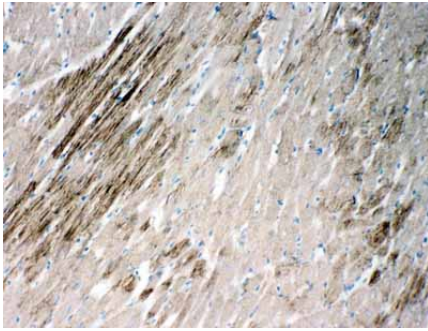
## Images



Anti-HSPB2 antibody, ABO11110, ICCICC: HELA Cell



Anti-HSPB2 antibody, ABO11110, Western blottingAll lanes: Anti HSPB2 (ABO11110) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Rat Spleen Tissue Lysate at 50ugLane 3: HELA Whole Cell Lysate at 40ugLane 4: COLO320 Whole Cell Lysate at 40ugLane 5: HT1080 Whole Cell Lysate at 40ugLane 6: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 20KD  
Observed bind size: 20KD



Anti-HSPB2 antibody, ABO11110, IHC(F)IHC(F): Rat Cardiac Muscle Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.