

## Rabbit HSPB2 Polyclonal Antibody | anti-HSPB2 antibody

Anti-HSPB2 antibody

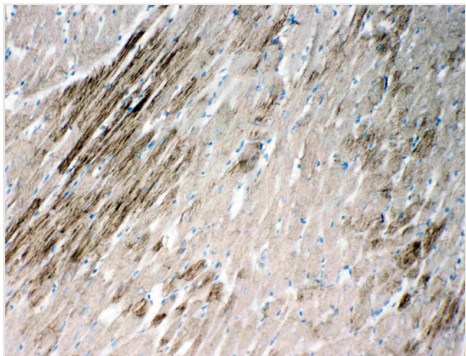
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                            |
|-----------|--------|-------------------|---------------------------------------------------------|
| AAA45451  | Rabbit | Human, Mouse, Rat | Immunocytochemistry, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

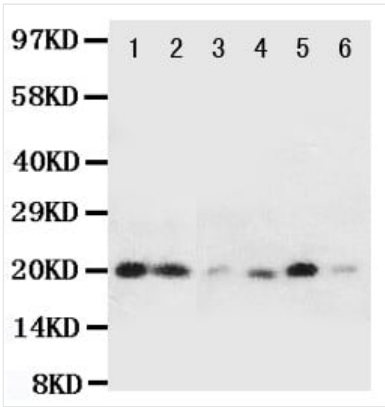
HSPB2; Polyclonal Antibody; Anti-HSPB2 antibody; Heat shock protein beta-2(HspB2); heat shock 27kDa protein 2(HspB2); DMPK-binding protein antibody; Heat shock 27kD protein 2 antibody; Heat shock 27kDa protein 2 antibody; Heat shock protein beta-2 antibody; Heat-shock protein beta-2 antibody; Hs.78846 antibody; HSP27 antibody; HspB2 antibody; HSPB2\_HUMAN antibody; LOH11CR1K antibody; MGC133245 antibody; MKBP antibody; anti-HSPB2 antibody

### PRODUCT SPECIFICATIONS

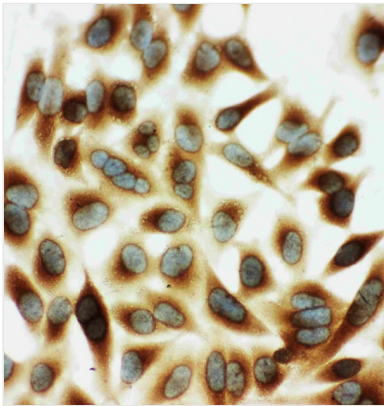
|                                                 |                                                                                                                                                                                                      |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                               |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                    |
| Clonality                                       | Polyclonal                                                                                                                                                                                           |
| Isotype                                         | IgG                                                                                                                                                                                                  |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                         |
| Form/Format                                     | Lyophilized                                                                                                                                                                                          |
| Sequence Length                                 | 182                                                                                                                                                                                                  |
| Applicable Applications for anti-HSPB2 antibody | ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                             |
| Immunogen                                       | A synthetic peptide corresponding to a sequence in the middle region of human HSPB2 (102-118aa RHPQRLDRHGFVSREFC), identical to the related rat and mouse sequences.                                 |
| Contents                                        | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.                                                                                                               |
| Reconstitution                                  | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                 |
| Preparation and Storage                         | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |



IHC (Immunohistochemisry)  
Anti-HSPB2 antibody, AAA45451, IHC(F)IHC(F): Rat Cardiac Muscle Tissue



WB (Western Blot)  
Anti-HSPB2 antibody, AAA45451, Western blottingAll lanes: Anti HSPB2 (AAA45451) 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: 20KDobserved bind size: 20KD



ICC (Immunocytochemistry)  
Anti-HSPB2 antibody, AAA45451, ICCICC: HELA Cell

ADDITIONAL INFORMATION

Related Product Information for anti-HSPB2 antibody

**Description:** Rabbit IgG polyclonal antibody for Heat shock protein beta-2(HSPB2) detection. Tested with WB, IHC-F, ICC in Human, Mouse, Rat.

**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.

NCBI AND UNIPROT INFORMATION

|                     |                |
|---------------------|----------------|
| NCBI GI #           | 6016268        |
| NCBI GeneID         | 3316           |
| UniProt Accession # | Q16082; Q6I9U7 |
| Molecular Weight    | 20,233 Da      |

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| NCBI Official Full Name          | Heat shock protein beta-2                                                  |
| NCBI Official Synonym Full Names | heat shock 27kDa protein 2                                                 |
| NCBI Official Symbol             | HSPB2                                                                      |
| NCBI Official Synonym Symbols    | MKBP; HSP27; Hs.78846; LOH11CR1K                                           |
| NCBI Protein Information         | heat shock protein beta-2; DMPK-binding protein; heat-shock protein beta-2 |
| UniProt Protein Name             | Heat shock protein beta-2                                                  |
| UniProt Gene Name                | <b>HSPB2</b>                                                               |
| UniProt Synonym Gene Names       | HspB2; MKBP                                                                |
| UniProt Entry Name               | HSPB2_HUMAN                                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/hspb2-antibody-immunocytochemistry-immunohistochemistry-western-blot-elisa/45451>