

# Datasheet for ABIN3042465 anti-HSPB2 antibody (AA 1-182)

# 1 Image



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Overview	
Quantity:	100 μg
Target:	HSPB2
Binding Specificity:	AA 1-182
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSPB2 antibody is un-conjugated
Application:	Western Blotting (WB)
Product Details	

Purpose:	Anti-HSPB2 Antibody Picoband®
Immunogen:	E.coli-derived human HSPB2 recombinant protein (Position: M1-P182). Human HSPB2 shares 97.3% amino acid (aa) sequence identity with both mouse and rat HSPB2.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-HSPB2 Antibody Picoband® (ABIN3042465). Tested in WB applications. This antibody reacts with Human, Rat. 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.
Purification:	Immunogen affinity purified.

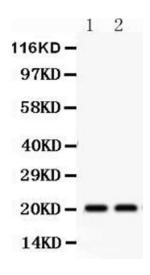
## **Target Details**

Target:	HSPB2	
Alternative Name:	HSPB2 (HSPB2 Products)	
Background:	Synonyms: Heat shock protein beta-2,HspB2,DMPK-binding protein,MKBP,HSPB2,	
	Tissue Specificity: 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 DNasel hypersensitive site is located, Iwaki et al. (1997) identified a gene	
	transcribed in the opposite ion. 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 HSPB2 is 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.	
	Sequence Similarities: Belongs to the small heat shock protein (HSP20) family.	
Molecular Weight:	20 kDa	
Gene ID:	3316	
UniProt:	Q16082	
Application Details		
• •	Western blot, 0.1-0.5 μg/mL, Rat, Human	
	Western blot, 0.1-0.5 μg/mL, Rat, Human 1. Iwaki, A., Nagano, T., Nakagawa, M., Iwaki, T., Fukumaki, Y. Identification and characterization	
• •	1. Iwaki, A., Nagano, T., Nakagawa, M., Iwaki, T., Fukumaki, Y. Identification and characterization	
Application Notes:	1. Iwaki, A., Nagano, T., Nakagawa, M., Iwaki, T., Fukumaki, Y. Identification and characterization of the gene encoding a new member of the alpha-crystallin/Small hsp family, closely linked to	
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#### Handling

Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store 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 freeze-thaw cycles.

#### **Images**



### **Western Blotting**

Image 1. Anti-HSPB2 Picoband antibody, Western blottingAll lanes: Anti HSPB2 at 0.5ug/ml Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug Lane 2: Rat Skeletal Muscle Tissue Lysate at 50ug Predicted bind size: 20KD Observed bind size: 20KD