

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



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1 Image

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 DNaseI 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

Application Notes:	Western blot, 0.1-0.5 µg/mL, Rat, Human 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 the alpha-B-crystallin gene in a head-to-head manner. Genomics 45: 386-394, 1997.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

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