

Anti-HSPB2 Picoband Antibody

Catalog # ABO12284

Product Information

Application	WB
Primary Accession	Q16082
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Heat shock protein beta-2(HSPB2) detection. Tested with WB in Human;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	3316
Other Names	Heat shock protein beta-2, HspB2, DMPK-binding protein, MKBP, HSPB2
Calculated MW	20233
Application Details	Western blot, 0.1-0.5 µg/ml, Rat, Human
Subcellular Localization	Cytoplasm . Nucleus . Localizes to nuclear foci.
Tissue Specificity	Expressed preferentially in skeletal muscle and heart but not in the lens.
Source	Eukaryota
Protein Name	Heat shock protein beta-2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, 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 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.

Images



Anti-HSPB2 Picoband antibody, ABO12284, Western blotting All lanes: Anti HSPB2 (ABO12284) 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

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