

Anti-Hsp20 Picoband Antibody

Catalog # ABO13060

Product Information

Application	WB
Primary Accession	O14558
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Heat shock protein beta-6(HSPB6) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	126393
Other Names	Heat shock protein beta-6, HspB6, Heat shock 20 kDa-like protein p20, HSPB6
Calculated MW	17136
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm . Nucleus . Translocates to nuclear foci during heat shock.
Source	Eukaryota
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived human Hsp20 recombinant protein (Position: H73-L123). Human Hsp20 shares 88.2% and 92.2% amino acid (aa) sequence identity with mouse and rat Hsp20, respectively.
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.

Protein Information

Name	HSPB6
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Function Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding- competent state. Seems to have versatile functions in various biological processes. Plays a role in regulating muscle function such as smooth muscle vasorelaxation and cardiac myocyte contractility. May regulate myocardial angiogenesis implicating KDR. Overexpression mediates cardioprotection and angiogenesis after induced damage. Stabilizes monomeric YWHAZ thereby supporting YWHAZ chaperone-like activity.

Cellular Location Cytoplasm. Nucleus. Secreted Note=Translocates to nuclear foci during heat shock

Background

Heat shock protein beta-6 is a protein that in humans is encoded by the HSPB6 gene. HSPB6, also known as hsp20, is a 17-kDa member of the small heat shock family of proteins. It is expressed in multiple tissues; however, HSPB6 is most highly and constitutively expressed in different types of muscle including vascular, airway, colonic, bladder, uterine smooth muscle, cardiac muscle and skeletal muscle. HSPB6 has specific functions for vasodilation, platelet function, and insulin resistance and in smooth and cardiac muscle.

Images



Figure 1. Western blot analysis of Hsp20 using anti-Hsp20 antibody (ABO13060).

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