HSPB1-1

Uniprot ID: P04792
Protein name: HSPB1_HUMAN
Full name: Heat shock protein beta-1
Protein existence: evidence at protein level
Function: Involved in stress resistance and actin organization.
Subcellular location: Cytoplasm. Nucleus. Cytoplasm; Cytoskeleton; Spindle. *NOTE*: Cytoplasmic in interphase cells. Colocalizes with mitotic spindles in mitotic cells. Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles.
Tissue specificity: Detected in all tissues tested: skeletal muscle, heart, aorta, large intestine, small intestine, stomach, esophagus, bladder, adrenal gland, thyroid, pancreas, testis, adipose tissue, kidney, liver, spleen, cerebral cortex, blood serum and cerebrospinal fluid. Highest levels are found in the heart and in tissues composed of striated and smooth muscle.

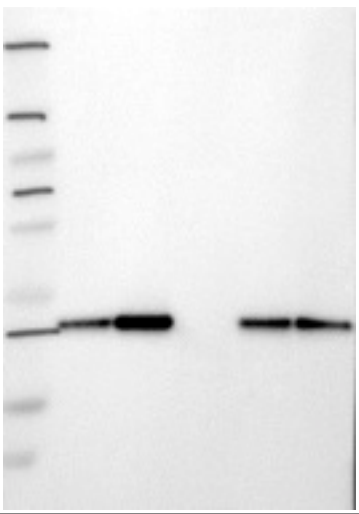
Three antibodies: HSPB1-1, HSPB1-2 and HSPB1-3 were tested. All three antibodies were approved for IHC. HSPB1-2 was selected for full protein profiling.

HSPB1-1 (CAB047330) **OK**

Prostate

Immunohistochemistry

IHC protocol: HIER pH 6, Dilution 1:600
IHC test staining: Strong cytoplasm in several tissues, strongest in squamous epithelia, placenta, falopian tuba.



Western blot

WB Size markers (kDa): 250, 130, 95, 72, 55, 36, 28, 17, 11
WB Lanes: Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)
WB Target weight (kDa): 4, 23, 19, 20
WB Validation: Supportive (Single band corresponding to the predicted size in kDa (+/-20%))