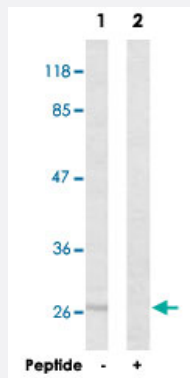


HSPB1 polyclonal antibody

Catalog # PAB18476

Size 100 ug

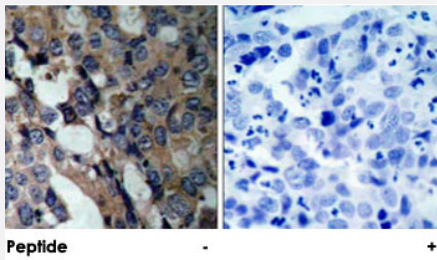
Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from HeLa cells using HSPB1 polyclonal antibody (Cat # PAB18476).

Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue using HSPB1 polyclonal antibody (Cat # PAB18476).

Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of HSPB1.
Immunogen	A synthetic peptide corresponding to residues surrounding S15 of human HSPB1.
Host	Rabbit
Reactivity	Human
Specificity	This antibody is specific to HSPB1.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:20000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from HeLa cells using HSPB1 polyclonal antibody (Cat # PAB18476).
Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using HSPB1 polyclonal antibody (Cat # PAB18476).
Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — HSPB1

Entrez GeneID	3315
Protein Accession#	P04792
Gene Name	HSPB1
Gene Alias	CMT2F, DKFZp586P1322, HMN2B, HS.76067, HSP27, HSP28, Hsp25, SRP27
Gene Description	heat shock 27kDa protein 1
Omim ID	602195 606595 608634
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is induced by environmental stress and developmental changes. The encoded protein is involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN). [provided by RefSeq]

Other Designations

OTTHUMP00000024846|estrogen-regulated 24 kDa protein|heat shock 27kD protein 1|heat shock protein beta-1|stress-responsive protein 27

Publication Reference

- [CXCL12 induces tyrosine phosphorylation of cortactin, which plays a role in CXC chemokine receptor 4-mediated extracellular signal-regulated kinase activation and chemotaxis.](#)

Luo C, Pan H, Mines M, Watson K, Zhang J, Fan GH.

The Journal of Biological Chemistry 2006 Oct; 281(40):30081.

- [Characterization of heat shock protein 27 phosphorylation sites in renal cell carcinoma.](#)

Tremolada L, Magni F, Valsecchi C, Sarto C, Mocarelli P, Perego R, Cordani N, Favini P, Galli Kienle M, Sanchez JC, Hochstrasser DF, Corthals GL.

Proteomics 2005 Feb; 5(3):788.

Application: WB-Ti, Human, Human renal cell carcinoma

- [F-actin capping \(CapZ\) and other contractile saphenous vein smooth muscle proteins are altered by hemodynamic stress: a proteomic approach.](#)

McGregor E, Kempster L, Wait R, Gosling M, Dunn MJ, Powell JT.

Molecular & Cellular Proteomics 2004 Feb; 3(2):115.

- [Cortactin tyrosine phosphorylation requires Rac1 activity and association with the cortical actin cytoskeleton.](#)

Head JA, Jiang D, Li M, Zorn LJ, Schaefer EM, Parsons JT, Weed SA.

Molecular Biology of the Cell 2003 Aug; 14(8):3216.

- [Hsp27 upregulation and phosphorylation is required for injured sensory and motor neuron survival.](#)

Benn SC, Perrelet D, Kato AC, Scholz J, Decosterd I, Mannion RJ, Bakowska JC, Woolf CJ.

Neuron 2002 Sep; 36(1):45.

Application: IF, WB-Ti, Rat, Sciatic nerve

- [Tyrosine phosphorylation of Kv1.2 modulates its interaction with the actin-binding protein cortactin.](#)

Hattan D, Nesti E, Cachero TG, Morielli AD.

The Journal of Biological Chemistry 2002 Oct; 277(41):38596.

- [A strategy for the rapid identification of phosphorylation sites in the phosphoproteome.](#)

MacDonald JA, Mackey AJ, Pearson WR, Haystead TA.

Molecular and Cellular Proteomics 2002 Apr; 1(4).

Pathway

- [MAPK signaling pathway](#)
- [VEGF signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Carcinoma](#)
- [Charcot-Marie-Tooth Disease](#)
- [Diabetic Nephropathies](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Small Cell Lung Carcinoma](#)